STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	1	148

CONSTRUCTION PLANS FOR PROPOSED

17TH STREET NORTH FROM I-135 to HILLSIDE

FOR

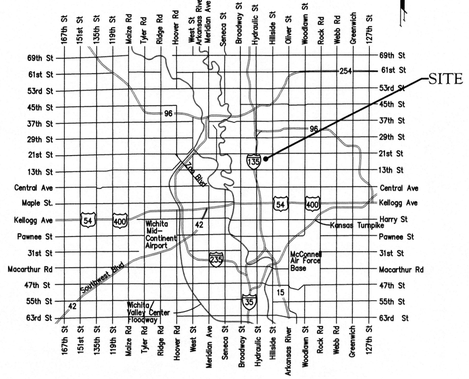
THE CITY OF WICHITA,
SEDGWICK COUNTY, KANSAS

Paul Gunzelman, P.E. City Engineer

KDOT PROJ. NO. 87 N-0761-01
F.A. NO. STP-N076(101)

GRADING
ASPHALT PAVING
SURFACING
STORMWATER
PAVEMENT MARKING
SIGNING
TRAFFIC SIGNALIZATION
SEEDING/SODDING

VICINITY MAP:



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Paving Project

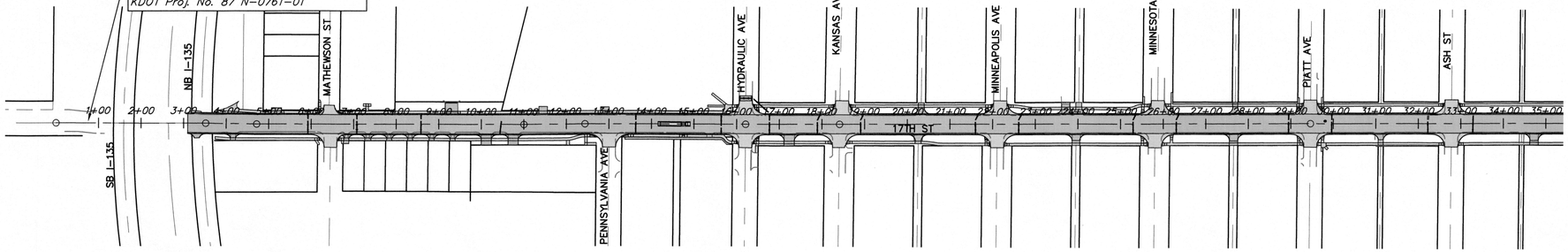
Project Number 472-2023-085860
Org Code 40107823
Munis Number E3041

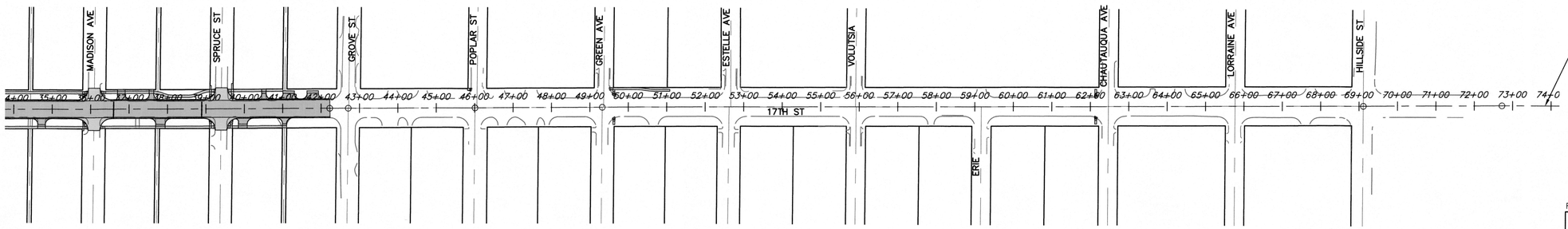
Waterline Project

Project Number 448-2024-003398
Org Code 54250323
Munis Number W3023

August 2025

SCALE: 1" = 150'





CONVENTIONAL SIGNS

COUNTY LINE
CITY LIMITS
STATE OR NATIONAL LINE
TOWNSHIP, SECTION or GRANT LINE
PROPERTY LINE
EXISTING FENCE
GUARDRAIL
CONSTRUCTION LIMITS
RIGHT OF WAY LINE
TRAVELED WAY
RAILROADS
CENTER LINE OF PROJECT
CULVERTS
DROP INLET & STORM SEWER
ACCESS CONTROL
POWER POLE
HEDGE
TREES
PROFILE ELEVATION

GROSS LENGTH OF PROJECT	7308.97 FT.		
EXCEPTIONS	NONE		
NET LENGTH OF PROJECT	7308.97 FT.	1.384	MILES
NET LENGTH OF BRIDGES	0.0 FT.	0.0	MILES
NET LENGTH OF ROAD	7308.94 FT.	1.384	MILES

DESIGN DESIGNATION

AADT (2015)	6,150
DHV	10%
D	60%
T	10%
V	30 MPH (I-135-GROVE)
V	35 MPH (GROVE-HILLSIDE)
C of A	NONE
LATERAL OFFSET	2'

BRENT CHESNUT — LICENSED — 23419 — 08/05/2025 — KANSAS PROFESSIONAL ENGINEER

RECOM. FOR APPROVED – DATE

Paul Gunzelman 8/6/2025

Paul Gunzelman, P.E. City Engineer
CITY OF WICHITA, KANSAS

August 5, 2025

BAUGHMAN COMPANY
315 Ellis St. Wichita, KS 67211 316-262-7271
BaughmanCo.com

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STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	2	148

GENERAL NOTES

1. The Contractor shall comply with all applicable safety regulations. All construction shall be completed following current City Standard Specifications and Special Provisions.

2. Contractor will be required to provide notice to utility companies a minimum of seventy–two (72) hours prior to any excavation, as follows:

   Kansas One–Call 687–2470

   The Contractor must notify the following in case of an emergency:

AT&T	1–800–246–8464
Black Hills Energy	1–800–694–8989
City of Wichita Water & Sewer	1–316–219–8921
City of Wichita Stormwater	1–316–268–4090
City of Wichita Traffic	1–316–268–4034
Cox Communications	1–888–249–3530
Kansas Gas Service	1–888–482–4950
Evergy	1–800–544–4857

3. Utility service lines, poles, etc. are to be adjusted as necessary by others prior to construction unless the plans specifically call for their adjustment by the Contractor or unless the plans specifically identify a utility to be adjusted by its owner during construction. Existing utilities and their location, as shown on the plans, represent the best information obtainable for design. The Contractor will be required to work around existing utilities within the right–of–way which do not conflict with proposed construction.

4. The Contractor shall give all property owners and/or tenants of developed property abutting the construction of this project a minimum of ten (10) days notice prior to start of construction.

5. The Contractor shall be responsible for preserving property irons. The Contractor will be required to re–establish any property irons which are damaged or destroyed by his construction operations. Such irons shall be re–established by a licensed land surveyor in accordance with state laws.

6. All elevations shown are NAVD88.

7. The Engineering Division shall field locate water valve one time during construction when requested by the Contractor. It shall be the Contractor's responsibility to preserve such field locations during the construction process. Water valves, valve boxes or fire hydrants damaged during construction shall be repaired by Contractor at his own expense. Valve boxes and water meters within the project limits shall be adjusted to match field grades by the contractor.

8. The Contractor Shall not begin work on the project until the Project Inspector is assigned and on–site. Any work competed without inspection will be require to be uncovered for inspection at no additional cost to the Owner.

9. Rubble from the removal of miscellaneous structures and excess excavation which is to be wasted shall be disposed of on sites to be provided by the Contractor. These sites shall be approved by the Engineer as to suitability, appearance and site location. Locations, in the opinion of the Engineer, that will leave an unsightly appearance will not be approved. All disposal sites must be approved by the Kansas Department of Health and Environment. Material either stockpiled or disposed of in a flood plain will require a Kansas State Board of Agriculture permit. Any material dumped in waters of the United States or wetlands is subject to U.S. Corps. of Engineers permitting regulations. Any material buried or stockpiled beyond approved construction limits will require additional archaeological investigations unless buried in a previously approved borrow location.

10. All excess excavation shall be removed from site, incidental to lump sum bid item "Site Restoration".

11. Trees and shrubs in public right–of–way which are in direct conflict with proposed new construction shall be removed by the Contractor with the City Engineer's approval. Trees and shrubs which are not in direct conflict with proposed new construction shall be saved and protected from damage. If trimming is necessary, a chainsaw shall be used. Breaking limbs with equipment will not be allowed. An on–site pre–construction meeting will occur prior to any construction to discuss tree removal, tree protection, and tree trimming. All trimming operations shall be considered SUBSIDIARY to the Bid Item "Site Clearing".

12. Prior to bidding the project, each bidder shall visit the site and satisfy himself of surface & subsurface conditions. Each bidder shall also fully inform himself as to the extent of the scope of work to be performed. Each bidder shall also be aware that no additional compensation will be awarded for extra work that should have been evaluated prior to bidding.

13. Adjacent Buildings, Structures, Parking Lots, Driveways, etc. other than those shown for replacement shall be protected from damage during construction of this Project.

14. The Contractor shall be responsible for all traffic control measures to facilitate construction. All construction zone markings and signage shall conform to the latest version of the Manual on Uniform Traffic Control Devices (MUTCD) as published by the US Department of Transportation, Federal Highway Administration. All costs associated with construction markings and signage shall be included in the Lump Sum Bid Item "Traffic Control".

15. All traffic control devices in the work zone (including markings and signs) and their installation and maintenance shall comply with the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD). All traffic control devices in the traveled way or clear zone shall be crashworthy

16. Contractor shall erect Sidewalk Closed and Sidewalk Closed Ahead signs on Type II barricades, when pedestrian sidewalks are located inside the Contractor's Work Zone. These Signs and barricades shall be considered SUBSIDIARY to the Bid Item "Traffic Control".

17. All construction equipment, including vehicles, materials, and debris, shall be stored outside the clear zone. where this cannot be achieved the contractor shall place appropriate signs, object identifiers, and/or barricades in compliance with the latest addition of the MUTCD.

18. Contractor shall deliver all existing traffic signs and traffic signal equipment to the City of Wichita. Contact Kevin Shore at (316) 268–4033 to arrange delivery. All associated costs to transport the traffic signal equipment will be paid for under the Lump Sum Bid Item "Transporting Salvageable Material".

19. Access to residential properties shall be maintained at all time during construction.

20. Limits of earthwork shall match existing ground elevations at the right–of–way line unless otherwise noted on the plans with a new finished grade elevation.

21. All areas disturbed during construction that will not be under proposed pavement shall be restored to match existing conditions per City Specifications and shall be included in the Lump Sum Bid Item "Sodding".

22. Lawn irrigation lines, sprinkler heads and valve boxes maybe encountered within the project limits that maybe in conflict with proposed construction and not identified on the plans.

    The Contractor shall notify property owners who have sprinkler systems or other improvement in conflict with the new construction. The Contractor will be required to remove such improvements, should they not be removed by the owner at the time of construction. The Contractor will be required to salvage sprinkler heads and/or valves and place them in property owner's yard. Sprinkler systems or other improvements not in conflict with the new construction shall be protected from damage and shall remain in place. Work shall be considered SUBSIDIARY to "Site Clearing".

23. Total area disturbed estimated to be 11,840 Sy. Yds., to be used for bidding purposes only. Actual area disturbed will be based on Contractors Means and Methods and should be limited to least amount practical.

24. All earthwork quantities are based on raw surface volume comparisons. No shrink or swell factors have been applied to quantities shown on plans.

STORMWATER NOTES

1. Contractor shall limit the extent of trench openings overnight and weekends to less than 50 feet.

2. When required and as detailed in the plans, the Contractor shall remove and replace street pavement for stormwater construction. Full–depth Concrete Pavement or full–depth Asphalt Pavement shall be used to replace existing asphalt surfaced pavement over Concrete Pavement. Costs to be included in the Bid Item "Pavement Removed and Replaced" paid for by the Square Yard.

3. Contractor shall install temporary pavement utility patches in locations where pavement will be replaced in the near future and at the direction of the owner. Costs to install and remove temporary patches to be included in the Bid Item "AC Pavement, Temporary (Utility Patch)" paid for by the Square yard. Quantity maybe adjusted throughout project to accommodate construction phasing.

4. Stormwater installed by open cut methods under street pavement shall be backfilled with sand, flushed and vibrated, from 6" below pipes to within 2' below the bottom of the rock base or finished grade per Detail WL–104. Sidewalk or Sidewalk Ramps to be sand filled, flushed and vibrated, from 6" below pipe to the bottom of the sidewalk pavement. Costs to be SUBSIDIARY to the Bid Item "Fill, Sand (Flushed & Vibrated)" paid for by the Linear Foot.

5. Contractor to remove existing stormwater inlets and manholes as indicated in the plans. Voids shall be back filled and compacted to the specified density per City of Wichita Standard Specifications. Cost for materials and labor to fill the voids shall be SUBSIDIARY to "Removal of Existing Structures".

PAVEMENT NOTES

1. Proposed curbs matching existing curbs shall be altered to match the shape and dimensions of the existing curb. Positive drainage shall be maintained through such transitions. No direct payment shall be made for such alterations and shall be considered SUBSIDIARY to curb bid item.

2. A saw cut of at least one–half the depth of existing surface courses or one–fourth the depth of the existing total pavement thickness shall be provided at locations where proposed construction abuts the existing surface course or pavement for which partial removal of that surface or pavement is required. Sawed joint to facilitate removal within three (3) feet of existing joints will not be permitted and for such instances the limits of removal shall extend to the existing joint. Such saw cuts will not be paid for directly and this cost shall be considered as SUBSIDIARY to the removal of the surface or pavement.

3. Crushed Rock Base is to be compacted and smoothed with a steel faced roller or vibrating compactor prior to placement of pavement.

4. A tack coat of emulsified asphalt (SC–1H or CSS–1H) shall be applied at an approximate rate of 0.05 gallons per square yard between each lift of asphaltic material.

5. All asphaltic concrete pavement placed on City of Wichita projects shall use:(17th Street is an Arterial Street)

   Non–Arterial Streets
   - Base Layer
     - Binder: PG 64–22
     - Aggregate Gradation: BC–1
   - Surface Layer
     - Binder: PG 64–22
     - Aggregate Gradation: SC–1

   Arterial Streets
   - Base Layer
     - Binder: PG 64–22
     - Aggregate Gradation: BM–2
   - Surface Layer
     - Binder: PG 70–28
     - Aggregate Gradation: BM–2

   Mill & Overlay
   - Binder: PG 70–28
   - Aggregate Gradation: BM1–B

   Asphalt Binder Specification AASHTO M320

   Gradations detailed in the Standard Special Provisions to the City of Wichita Standard Specifications (1998), Revised Sept 23, 2024 – PART 400.2 – Gradation Requirements

DEMOLITION NOTES

1. Contractor shall deliver all existing transit signs and equipment at removed bus stops to the City of Wichita at 777 East Waterman. All associated costs to transport the items will be paid for under the Lump Sum Bid Item "Transporting Salvageable Material".

2. All pipes to be abandoned in place shall be filled with sand or grout and plugged per City of Wichita Standard Specifications. Costs SUBSIDIARY to the Bid Item "Pipe Abandoned in Place".

UBAS NOTES

1. To the extent possible, laydown operations will be adjusted to cause joints in the UBAS surface to match the proposed pavement striping plan and prevent joints from occurring in the wheel paths of traffic.

2. At the Owner's discretion, the width of edge milling may be adjusted to maximize uniform thickness of the UBAS surface.

3. UBAS Specification Modifications

   3.3. All work for Ultrathin Bonded Overlay shall comply with the latest edition of KDOT specifications section 613 – Ultrathin Bonded Asphalt Surface (UBAS) with modifications as detailed below.

   3.4. Contractor to use a paver capable of placing the hot mix surface course within 5 seconds after the application of the EBL.

   3.7. Transitional milling will take place at the beginning and end of the project limits. The transition milling shall transition from ½" to 0" within a minimum of 10'. Transitional Milling will be paid for by the square yard under the Bid Item "Transitional Milling".

   3.8. UBAS shall be paid by the ton delivered to the site under the Bid Item "HMA Surface (Ultrathin Bonded)(Type A)(PG 70–28)".

   3.12. The target application rate of the Ultrathin Bonded Overlay shall be 70 lbs/sy.

   3.13. Emulsion Bonding Liquid (EBL) shall be applied at a rate of 0.22 gal/sy. Engineer shall adjust EBL Target limits at start of construction and at change of existing pavement to confirm desired results. Contractor to provide Engineer 48 hour notice prior to start of UBAS application at project beginning and at changes in existing pavement.

   3.14. EBL shall be paid by the ton delivered to the site under the Bid Item "Emulsified Asphalt (Emulsion Bonding Liquid)". Bid Quantity accounts for 10% overrun to account for field adjustments to EBL application rate.

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CITY OF WICHITA
17TH STREET

GENERAL NOTES

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

DESIGN: BDC DRAWN: TMS

DATE: August 5, 2025

SHEET 2 OF 148

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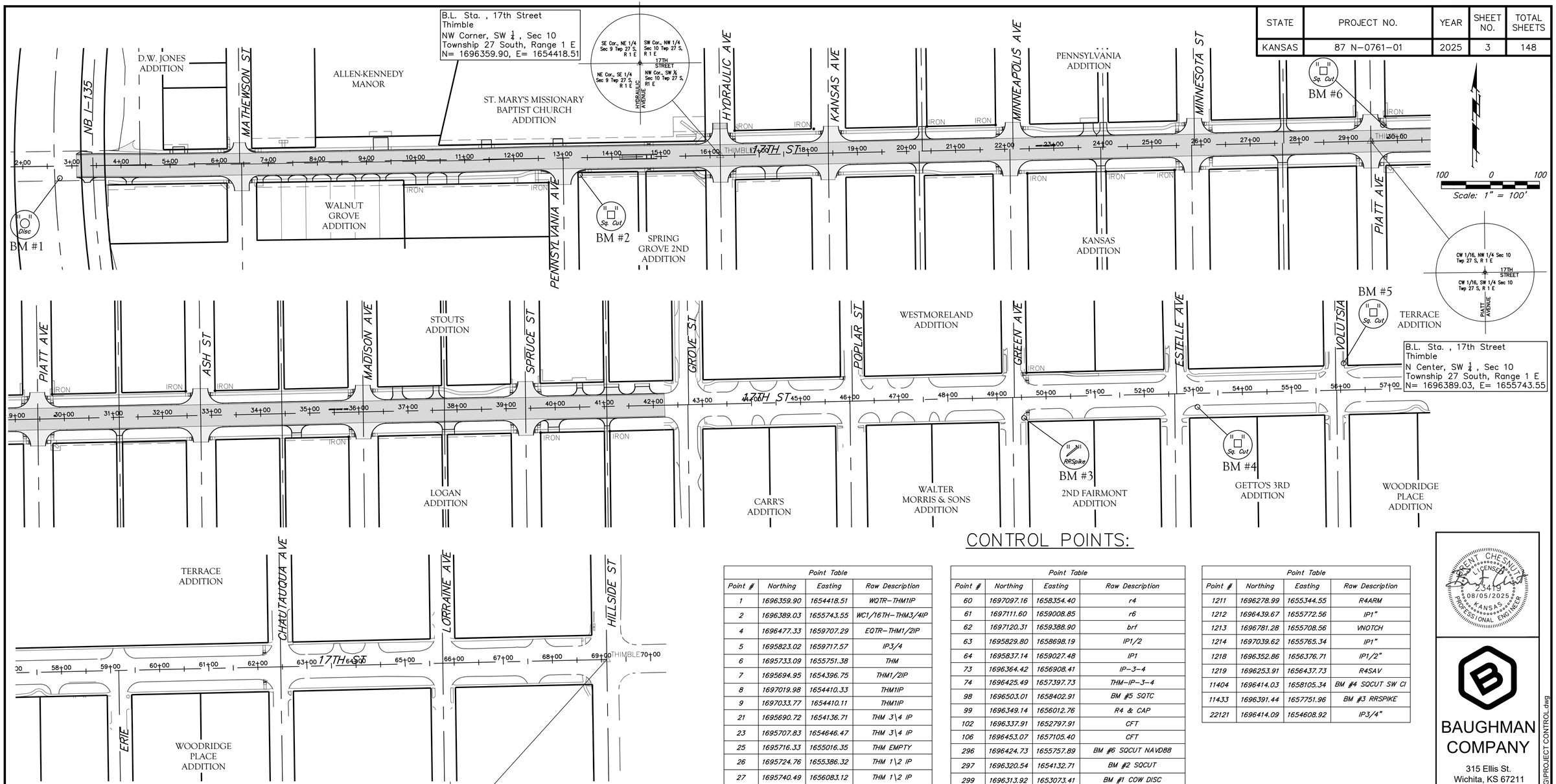
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	3	148



BENCHMARKS:

BM #1: COW disc on top of curb, south side of 17th St. N., ~370' west of Matthewson.
Elev. = 1312.48 NAVD88

BM #2: "□" on concrete base of highline pole, SE corner of 17th St. N. & Pennsylvania Ave.
Elev. = 1308.25 NAVD88

BM #3: Railroad spike on power pole, SE corner of 17th St. N. & Green St.
Elev. = 1318.81 NAVD88

BM #4: "□" on top of curb inlet, east end of return, SE corner of 17th St. N. & Estelle.
Elev. = 1324.66 NAVD88

BM #5: "□" on top of curb, north end of return, NE corner of 17th St. N. & Volutsia.
Elev. = 1331.33 NAVD88

BM #6: "□" on top of curb, North East Corner of 17th St. N & Piatt Ave.
Elev.=1307.28 NAVD88

CONTROL POINTS:

Point Table			
Point #	Northing	Easting	Raw Description
1	1696359.90	1654418.51	WOTR-THM1IP
2	1696389.03	1655743.55	WC1/16TH-THM3/4IP
4	1696477.33	1659707.29	EQTR-THM1/2IP
5	1695823.02	1659717.57	IP3/4
6	1695733.09	1655751.38	THM
7	1695694.95	1654396.75	THM1/2IP
8	1697019.98	1654410.33	THM1IP
9	1697033.77	1654410.11	THM1IP
21	1695690.72	1654136.71	THM 3\4 IP
23	1695707.83	1654646.47	THM 3\4 IP
25	1695716.33	1655016.35	THM EMPTY
26	1695724.76	1655386.32	THM 1\2 IP
27	1695740.49	1656083.12	THM 1\2 IP
28	1695748.22	1656413.81	THM 3\4 IP
29	1695755.86	1656744.76	X-FOUND
30	1695778.15	1657737.80	X-FOUND
31	1695785.39	1658065.66	X-FOUND
32	1695785.35	1658062.52	THM 3\4 IP
34	1695792.87	1658396.72	THM 1\2 IP
36	1696317.50	1651778.34	CENTER-CROSS
37	1697038.24	1654636.37	THM 1\2 IP
38	1697083.54	1656398.44	PK NAIL
51	1696597.21	1656102.59	brf
52	1696357.08	1656566.62	VF
53	1696357.42	1656577.60	VF
54	1696360.78	1656737.53	IP1
55	1696361.43	1656767.52	brf
56	1697016.71	1655041.37	PIN1
57	1696422.14	1654979.20	brf
58	1696615.90	1654976.72	IP1/2

Point Table			
Point #	Northing	Easting	Raw Description
60	1697097.16	1658354.40	r4
61	1697111.60	1659008.85	r6
62	1697120.31	1659388.90	brf
63	1695829.80	1658698.19	IP1/2
64	1695837.14	1659027.48	IP1
73	1696364.42	1656908.41	IP-3-4
74	1696425.49	1657397.73	THM-IP-3-4
98	1696503.01	1658402.91	BM #5 SQTC
99	1696349.14	1656012.76	R4 & CAP
102	1696337.91	1652797.91	CFT
106	1696453.07	1657105.40	CFT
296	1696424.73	1655757.89	BM #6 SQCUT NAVD88
297	1696320.54	1654132.71	BM #2 SQCUT
299	1696313.92	1653073.41	BM #1 COW DISC
358	1696647.13	1656101.96	r4
500	1696434.00	1656566.23	bm
503	1696445.56	1656044.56	IP1
504	1696446.89	1656104.45	IP1
1094	1696652.43	1653454.00	r4 .5 sticking above ground
1105	1696483.56	1657757.07	r5rb yellow cap
1200	1696304.67	1654069.06	IP1/2"
1201	1696299.81	1653773.92	IP1/2"
1202	1696410.50	1654447.88	IP3/4"
1203	1696313.91	1654604.28	BRF
1204	1696419.01	1654839.31	BRF
1206	1696327.20	1655203.93	R4
1207	1696323.54	1655043.91	IP3/4"
1208	1696364.65	1654638.69	TH-IP3/4"
1209	1696322.95	1655008.93	TH-IP3/4"
1210	1696330.21	1655343.90	R4

Point Table			
Point #	Northing	Easting	Raw Description
1211	1696278.99	1655344.55	R4ARM
1212	1696439.67	1655772.56	IP1"
1213	1696781.28	1655708.56	VNOTCH
1214	1697039.62	1655765.34	IP1"
1218	1696352.86	1656376.71	IP1/2"
1219	1696253.91	1656437.73	R4SAV
11404	1696414.03	1658105.34	BM #4 SQCUT SW CI
11433	1696391.44	1657751.96	BM #3 RRSPIKE
22121	1696414.09	1654608.92	IP3/4"

BM	*BENCH MARK*
BRF	*BAUGHMAN REBAR FOUND*
IP-1-2	*½" Iron Pipe*
IP-3-4	*¾" Iron Pipe*
IP-1	*1" Iron Pipe*
IP-1-1-4	*1-1/4" Iron Pipe*
MAG	*MAG NAIL*
R4	*#4 Rebar*
R5	*#5 Rebar*
TH-R6	*#6 Rebar in Thimble*
TH-IP-3-4	*¾" Iron Pipe in Thimble*
VNOTCH	*Chiseled "V" Notch*

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315 Ellis St.
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BaughmanCo.com

CITY OF WICHITA
17TH STREET

PROJECT CONTROL

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

DESIGN: BDC DRAWN: TS

DATE: August 5, 2025

SHEET 3 OF 148

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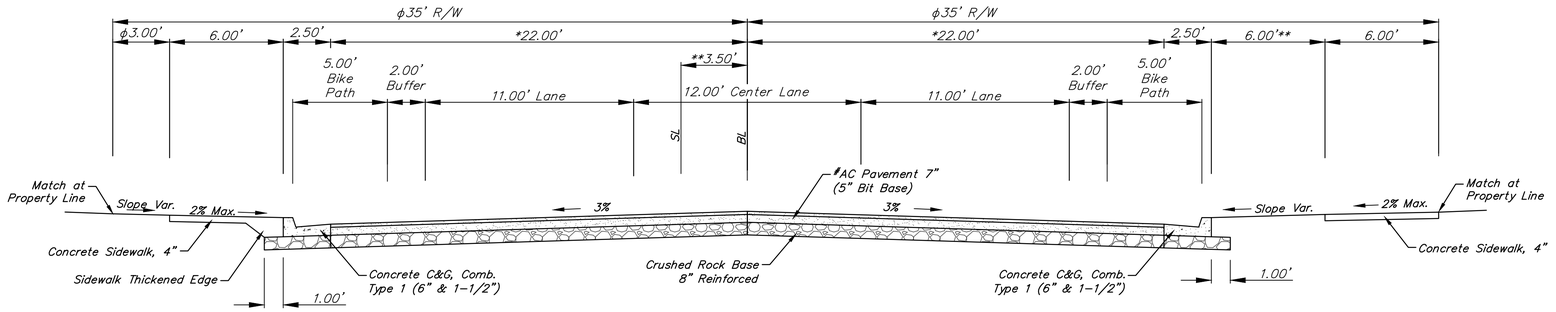
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	4	148



TYPICAL SECTION

17th Street
Sta. 3+09.44 to Sta. 12+43.89
* Varies from 21.5' (Existing) at 3+09.44 to 22.0' at 3+51.50
** Varies from 3.5' at 10+58.89 to 0.0' at 12+43.89

ϕ R/W width varies, 35' typical.
Location of sidewalk varies, abutting R/W on the south side and abutting back or curb on the north side typical.

A tack coat of emulsified asphalt (SC–1H or CSS–1H) shall be applied at an approximate rate of 0.05 gallons per square yard between each lift of asphaltic material.

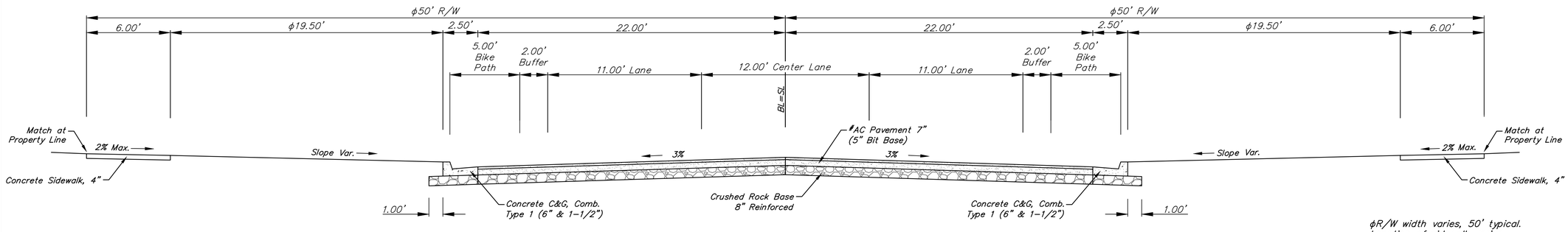
Non–Arterial Streets
- Base Layer
  - Binder: PG 64–22
  - Aggregate Gradation: BC–1
- Surface Layer
  - Binder: PG 64–22
  - Aggregate Gradation: SC–1

#Arterial Streets
- Base Layer
  - Binder: PG 64–22
  - Aggregate Gradation: BM–2
- Surface Layer
  - Binder: PG 70–28
  - Aggregate Gradation: BM–2

Mill & Overlay
- Binder: PG 70–28
- Aggregate Gradation: BM1–B

Asphalt Binder Specification AASHTO M320

Gradations detailed in the Standard Special Provisions to the City of Wichita Standard Specifications (1998), Revised Sept 23, 2024 – PART 400.2 – Gradation Requirements



TYPICAL SECTION

17th Street
Sta. 12+43.89 to Sta. 42+23.47

ϕR/W width varies, 50' typical.
Location of sidewalk varies, abutting R/W typical.

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CITY OF WICHITA
17TH STREET

TYPICAL SECTIONS (I135 - GROVE)

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

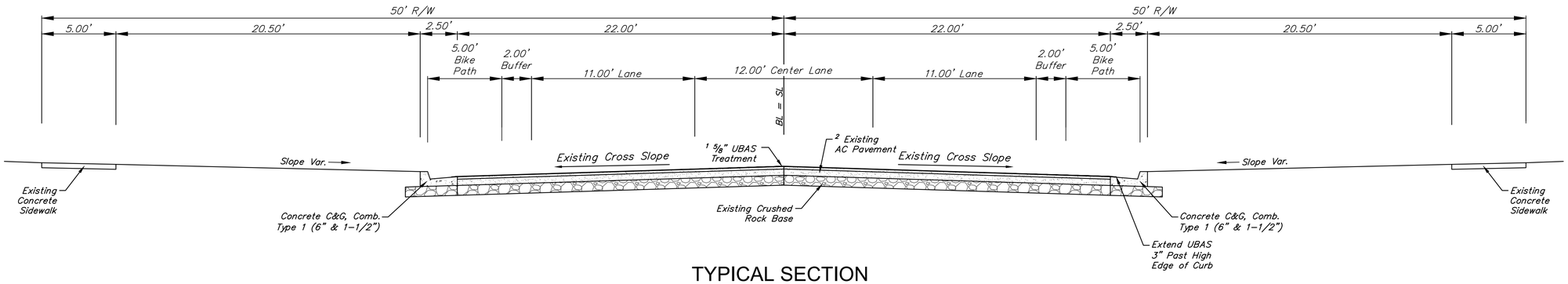
DESIGN: ENG DRAWN: DFT

DATE: August 5, 2025

SHEET 4 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\TYPICAL SECTIONS.dwg

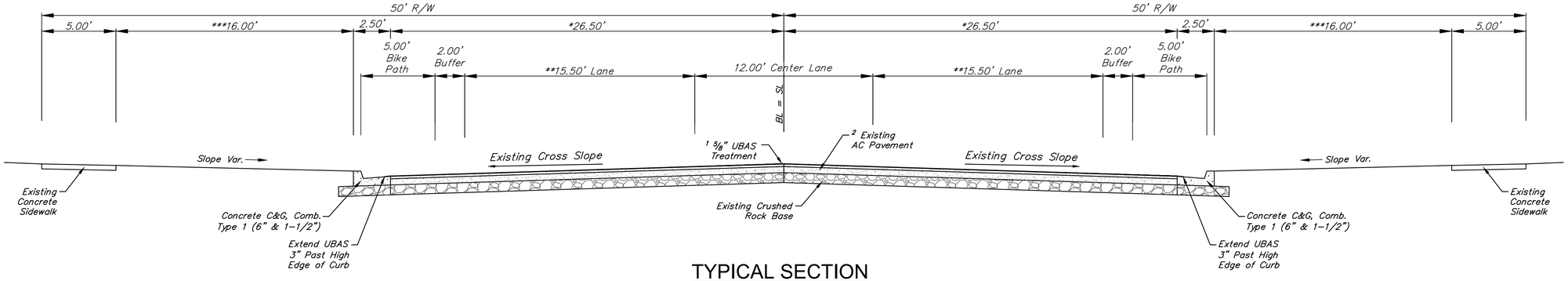
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	5	148



TYPICAL SECTION

17th Street
Sta. 43+19.91 to Sta. 64+64.13

1. ALTERNATE #1:
   HMA Surface (Ultrathin Bonded)(Type A)(PG 70–28) 479 Tons
   Emulsified Asphalt (Emulsion Bonding Liquid) 13 Tons
2. ALTERNATE #2:
   AC Pavement 2" Mill Overlay 12,436 SY



TYPICAL SECTION

17th Street
Sta. 64+64.13 to Sta. 68+10.64
* Varies from 22.0' at 64+64.13 to 26.5' at 66+21.08
** Varies from 12.0' at 64+64.13 to 15.5' at 66+21.08
*** Varied from 20.5' at 64+64.13 to 16.0' at 66+21.08

BRENT CHESNUT
LICENSED
23419
08/05/2025
KANSAS
PROFESSIONAL ENGINEER

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316-262-7271
BaughmanCo.com

CITY OF WICHITA
17TH STREET

TYPICAL SECTIONS (GROVE - HILLSIDE)

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

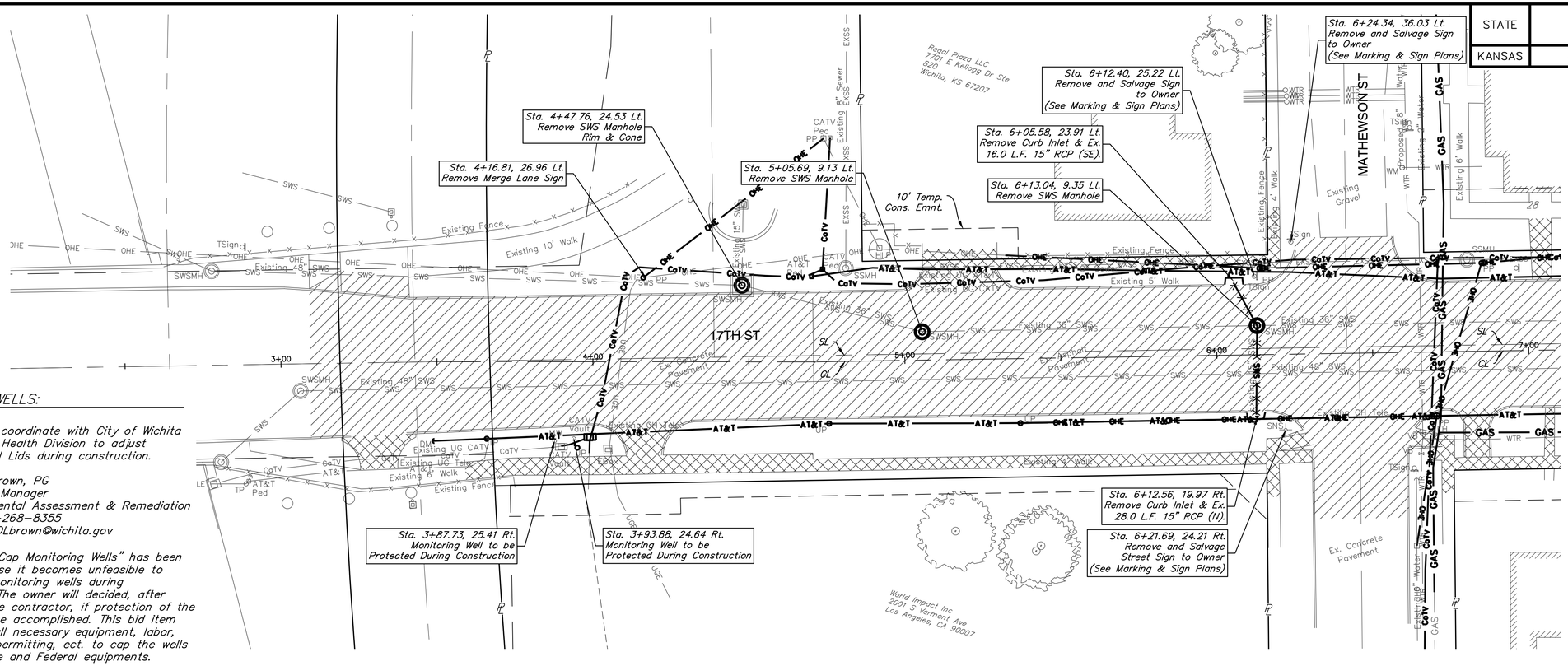
DESIGN: ENG DRAWN: DFT

DATE: August 5, 2025

SHEET 5 OF 148

File: E:\Projects\Wichita 17th St. I-135 to Hillside (23-04-E484)\Engineering\DWG\TYPICAL SECTIONS.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	6	148



MONITORING WELLS:

1. Contractor to coordinate with City of Wichita Environmental Health Division to adjust Monitoring Well Lids during construction.

   Darren Brown, PG
   Program Manager
   Environmental Assessment & Remediation
   Ph: 316–268–8355
   E–Mail: DLbrown@wichita.gov

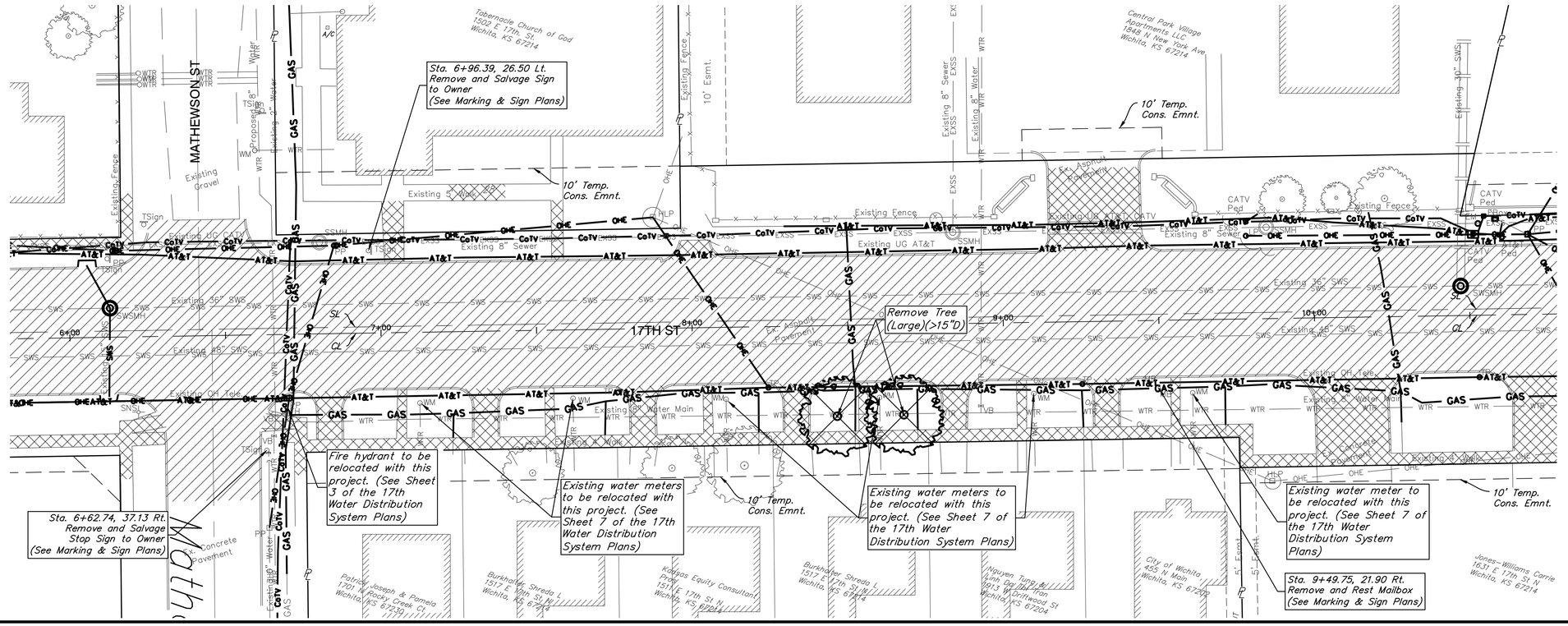
2. The bid item "Cap Monitoring Wells" has been included in case it becomes unfeasible to protect the monitoring wells during construction. The owner will decided, after review with the contractor, if protection of the wells cannot be accomplished. This bid item shall include all necessary equipment, labor, coordination, permitting, ect. to cap the wells per City, State and Federal equipments.

20 0 20
Scale: 1" = 20'

Pavement Removed
Sidewalk, Drive, &/or Pkg Lot Removed.
Pipe Removed
Tree Removal

GENERAL NOTES:

1. Electric Structures, Overhead Lines, Poles, and other underground private utilities, as shown, to be Removed by Others Prior to Construction.
2. Pavement Removal includes curb and gutter.
3. Refer to Pavement Plans & Coordinate Sheets for limits of Pavement & Sidewalk Removal.



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CITY OF WICHITA
17TH STREET

DEMO PLANS 1

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

DESIGN: BDC DRAWN: TS

DATE: August 5, 2025

SHEET 6 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\DEMO PLANS.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	7	148

MONITORING WELLS:

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   Program Manager
   Environmental Assessment & Remediation
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   E–Mail: DLbrown@wichita.gov

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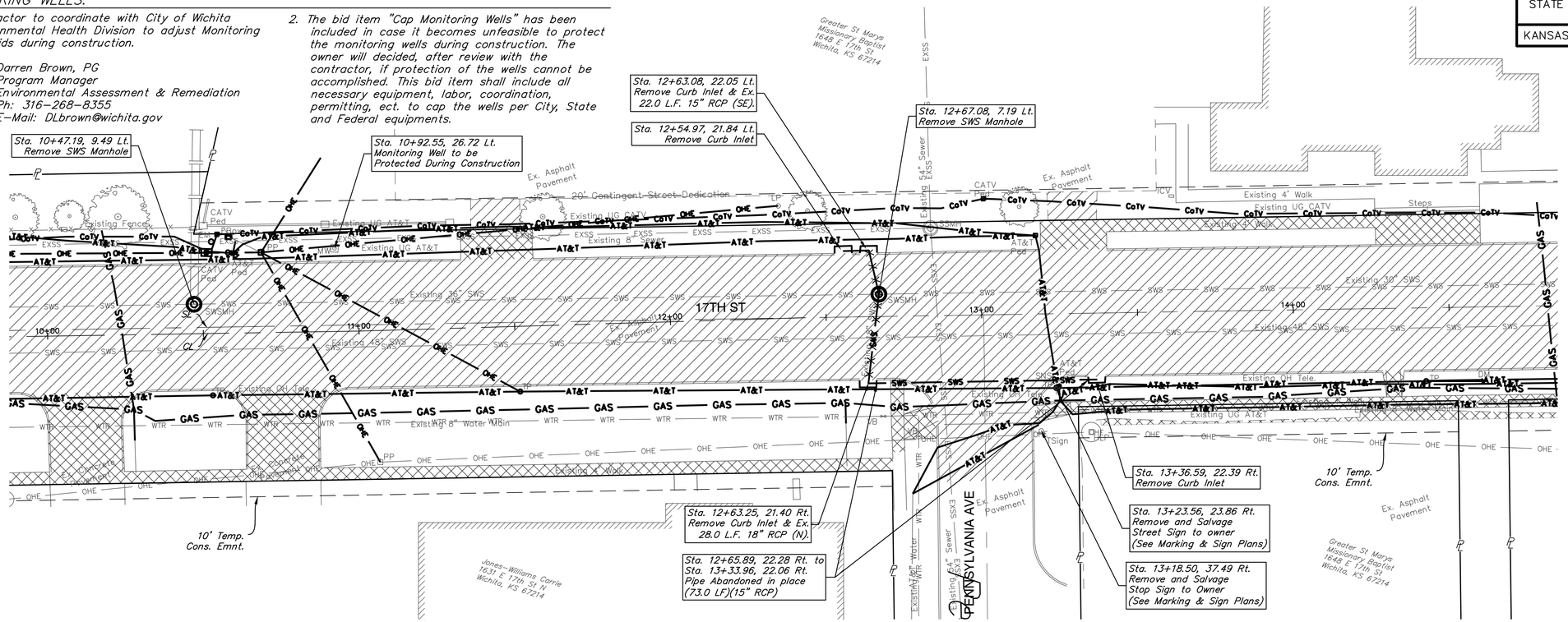

20 0 20
Scale: 1" = 20'

- Pavement Removed
- Sidewalk, Drive, &/or Pkg Lot Removed.
- Pipe Removed
- Tree Removal

GENERAL NOTES:

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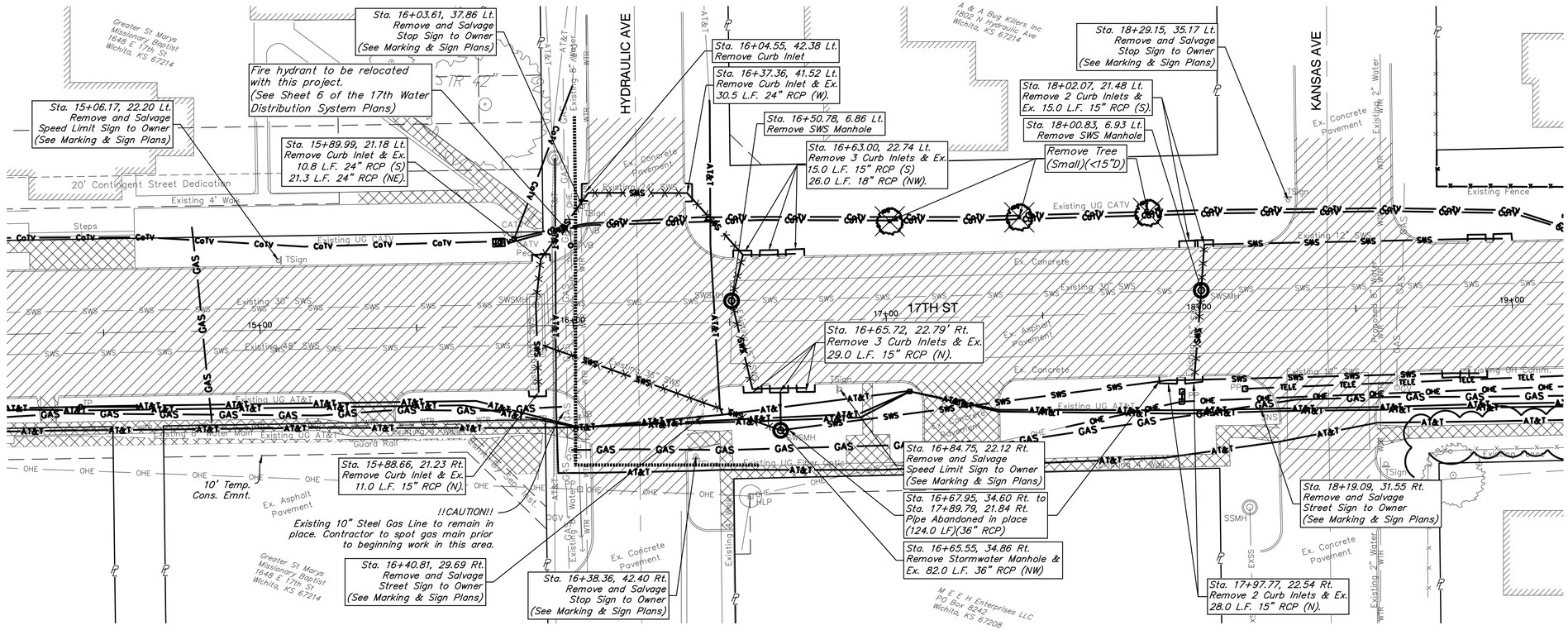

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316-262-7271
BaughmanCo.com

CITY OF WICHITA
17TH STREET

DEMO PLANS 2

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

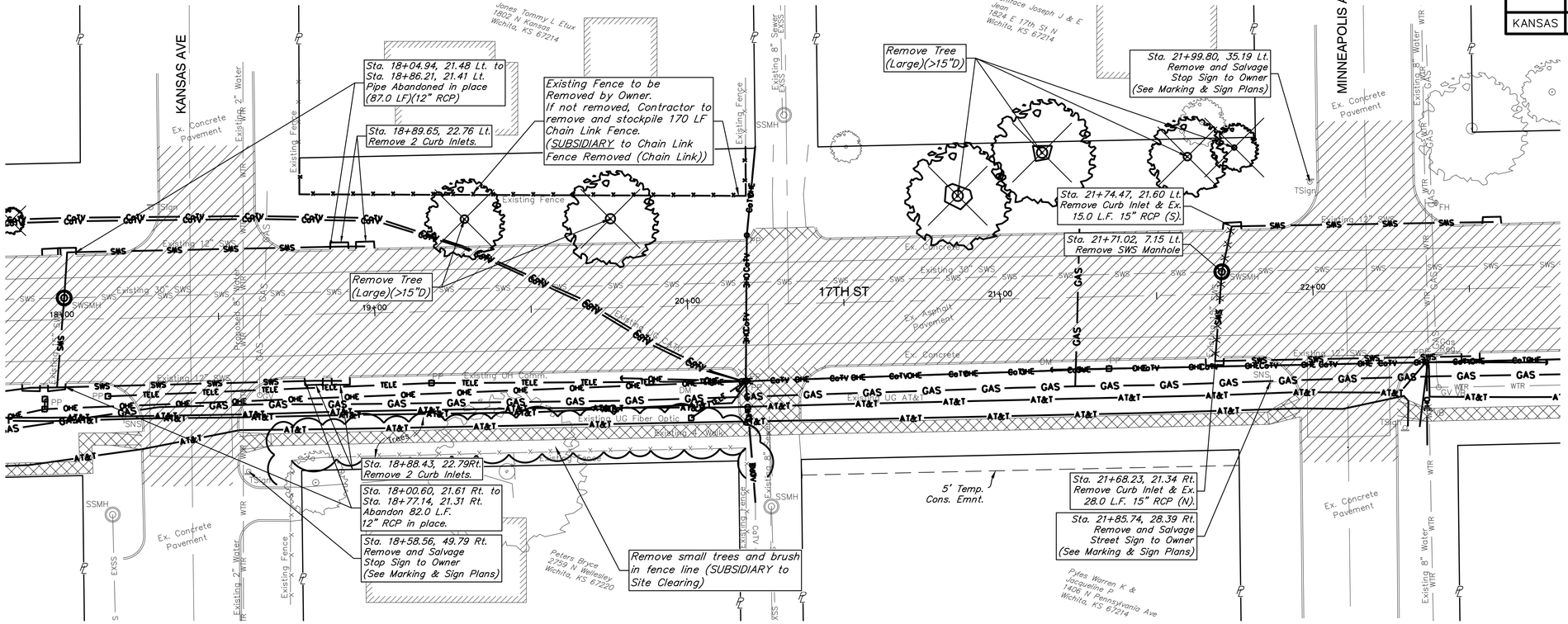
DESIGN: BDC DRAWN: TS

DATE: August 5, 2025

SHEET 7 OF 148

File: E:\Projects\Wichita 17th St. I-135 to Hillside (23-04-E484)\Engineering\DWG\DEMO PLANS.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	8	148



20 0 20

Scale: 1" = 20'

- Pavement Removed
- Sidewalk, Drive, &/or Pkg Lot Removed.
- Pipe Removed
- Tree Removal

GENERAL NOTES:

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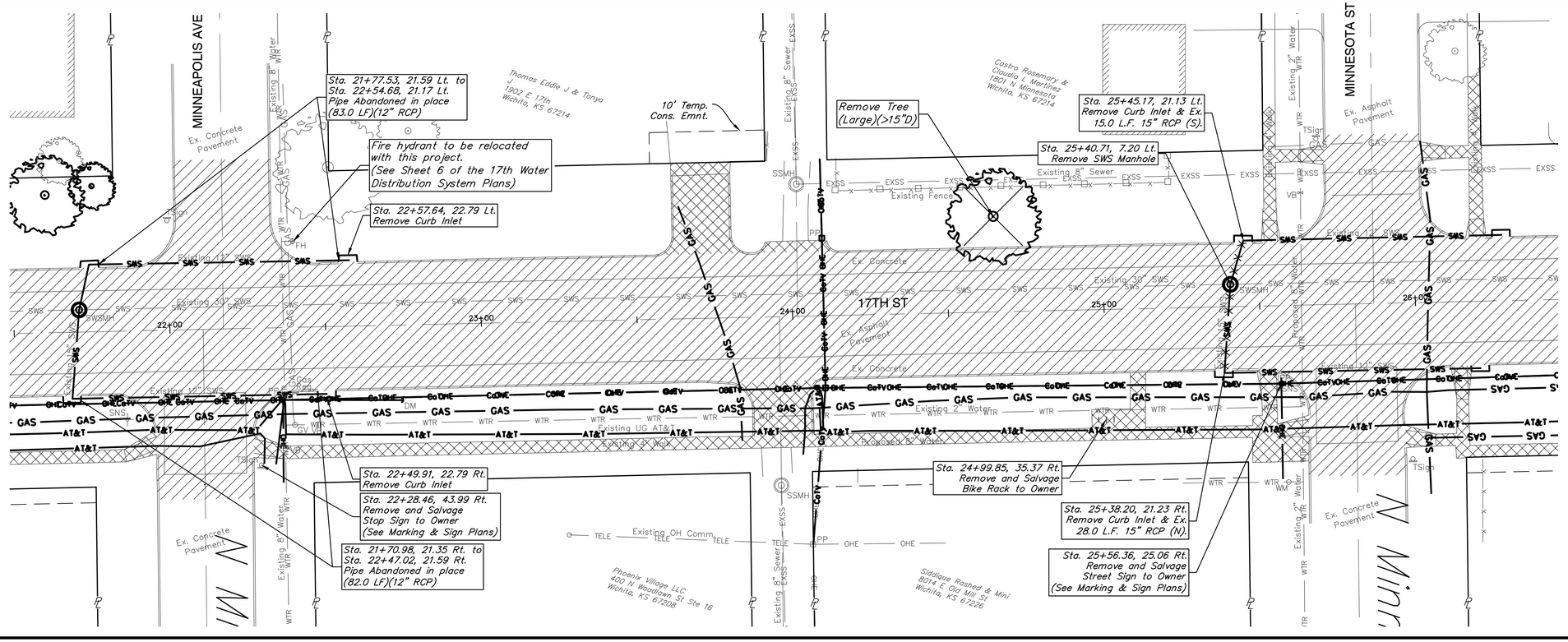


BRENT CHESNUT LICENSED 23419 08/05/2025 KANSAS PROFESSIONAL ENGINEER

BAUGHMAN COMPANY
315 Ellis St.
Wichita, KS 67211
316-262-7271
BaughmanCo.com

CITY OF WICHITA
17TH STREET

DEMO PLANS 3

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

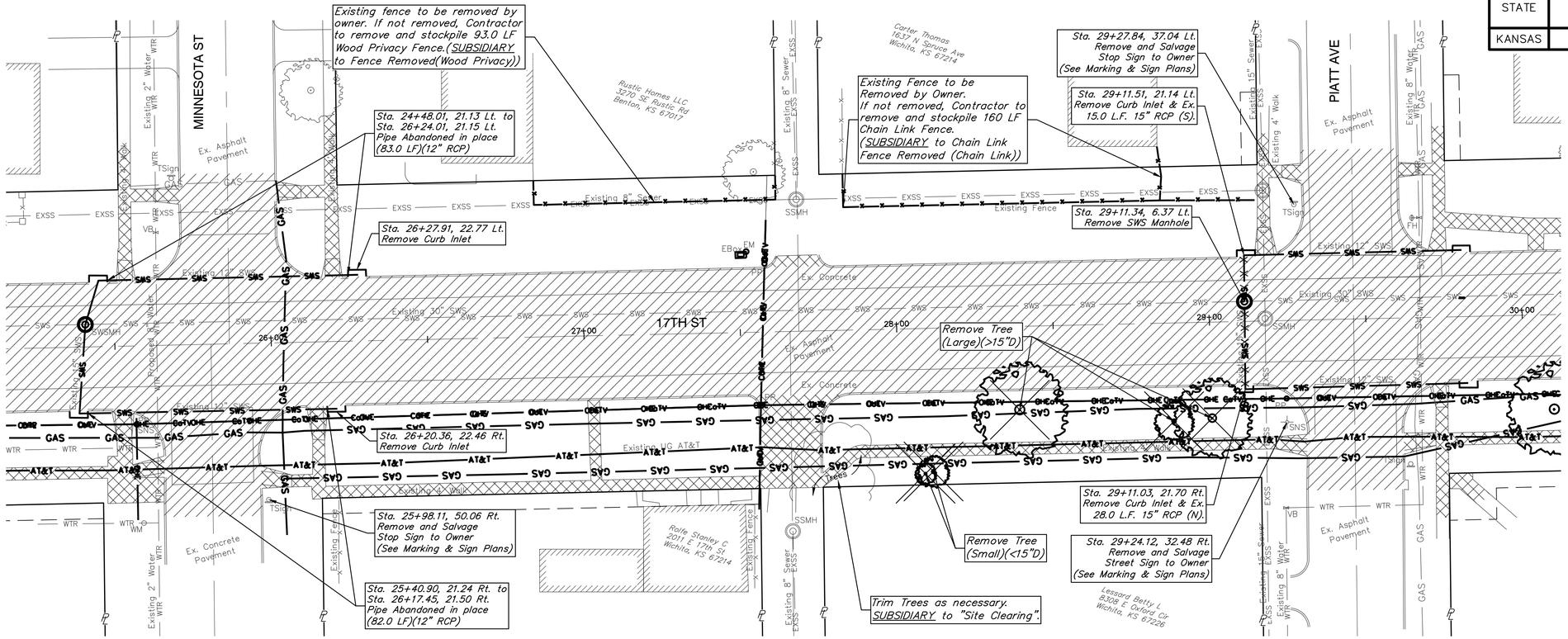
DESIGN: BDC DRAWN: TS

DATE: August 5, 2025

SHEET 8 OF 148

File: E:\Projects\Wichita 17th St. I-135 to Hillside (23-04-E484)\Engineering\DWG\DEMO PLANS.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	9	148



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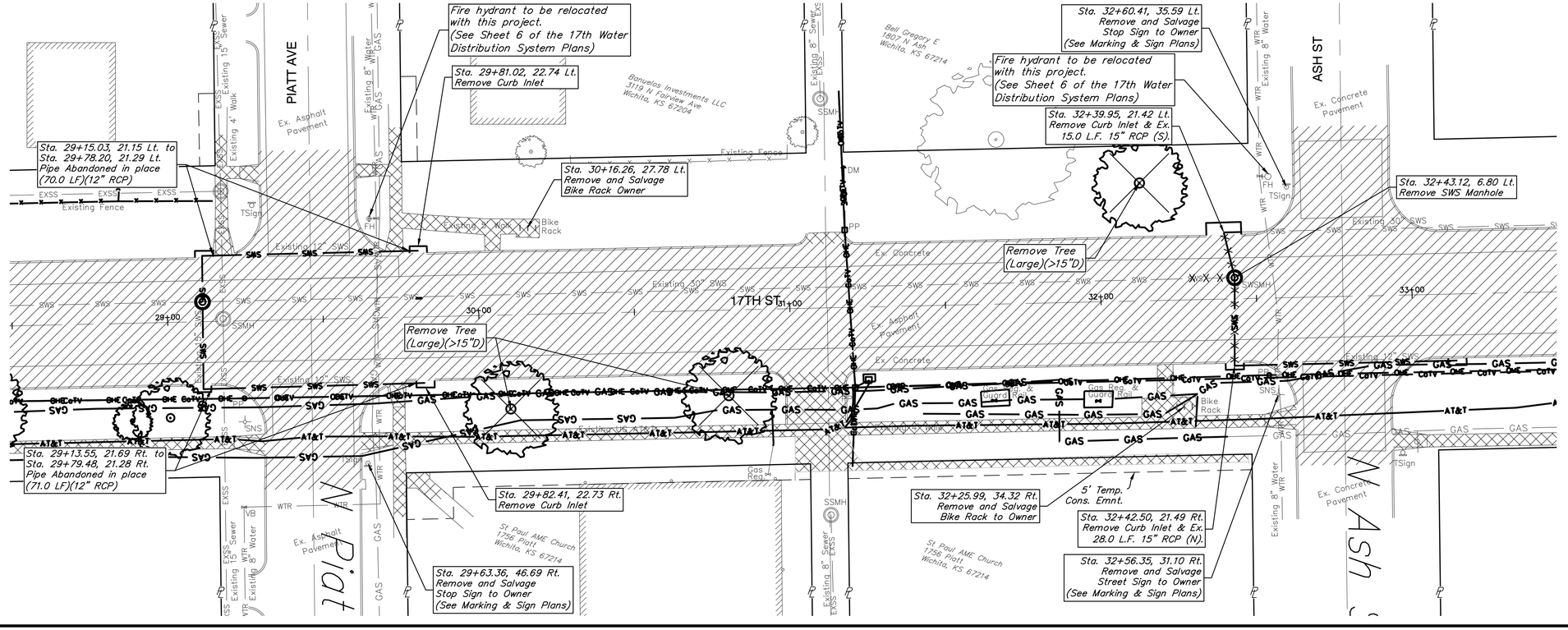

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Wichita, KS 67211
316-262-7271
BaughmanCo.com

CITY OF WICHITA
17TH STREET

DEMO PLANS 4

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

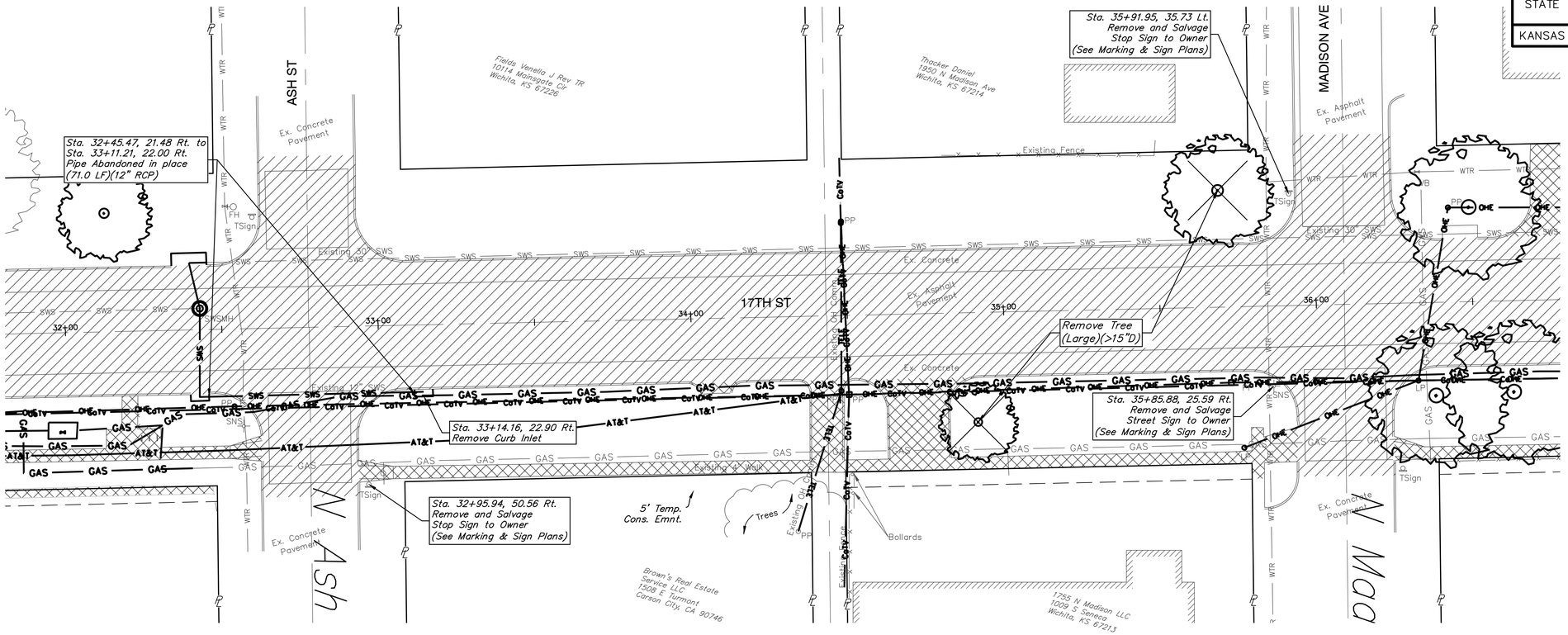
DESIGN: BDC DRAWN: TS

DATE: August 5, 2025

SHEET 9 OF 148

File: E:\Projects\Wichita 17th St. I-135 to Hillside (23-04-E484)\Engineering\DWG\DEMO PLANS.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	10	148



20 0 20

Scale: 1" = 20'

- Pavement Removed
- Sidewalk, Drive, &/or Pkg Lot Removed.
- Pipe Removed
- Tree Removal

GENERAL NOTES:

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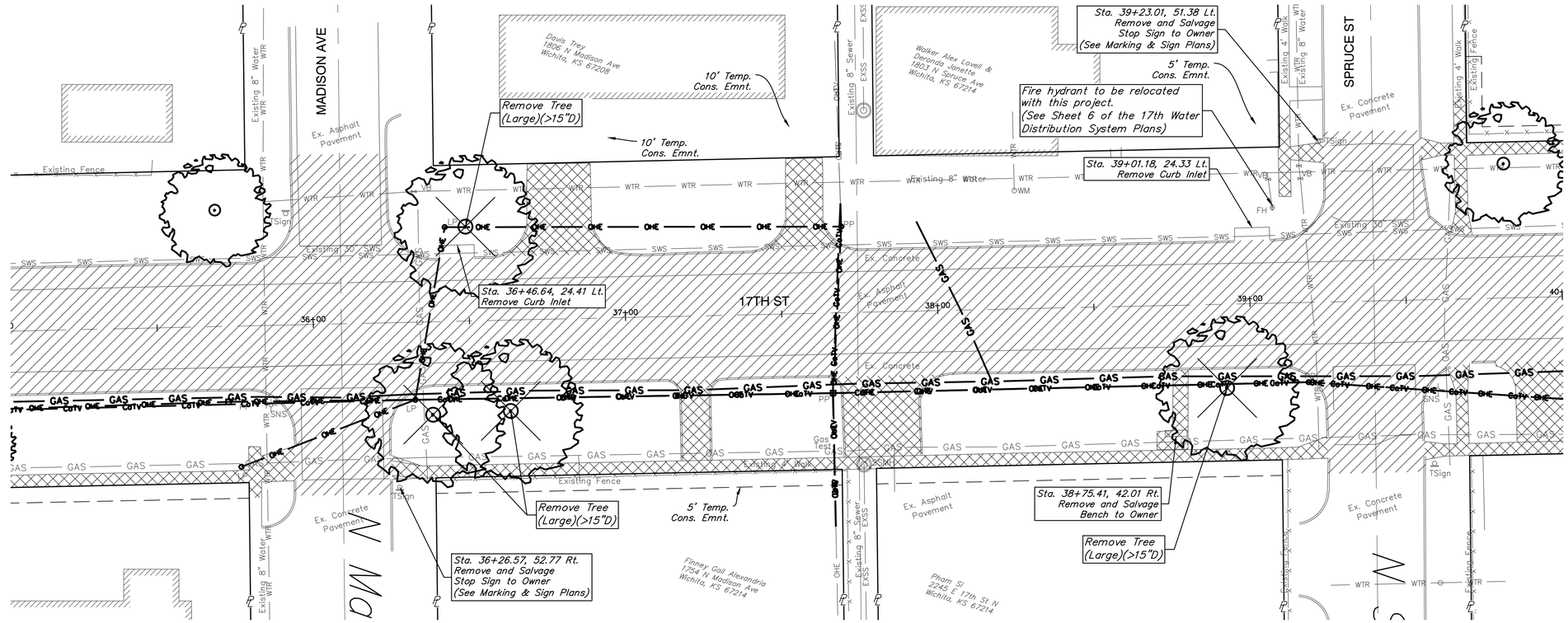

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Wichita, KS 67211
316-262-7271
BaughmanCo.com

CITY OF WICHITA
17TH STREET

DEMO PLANS 5

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

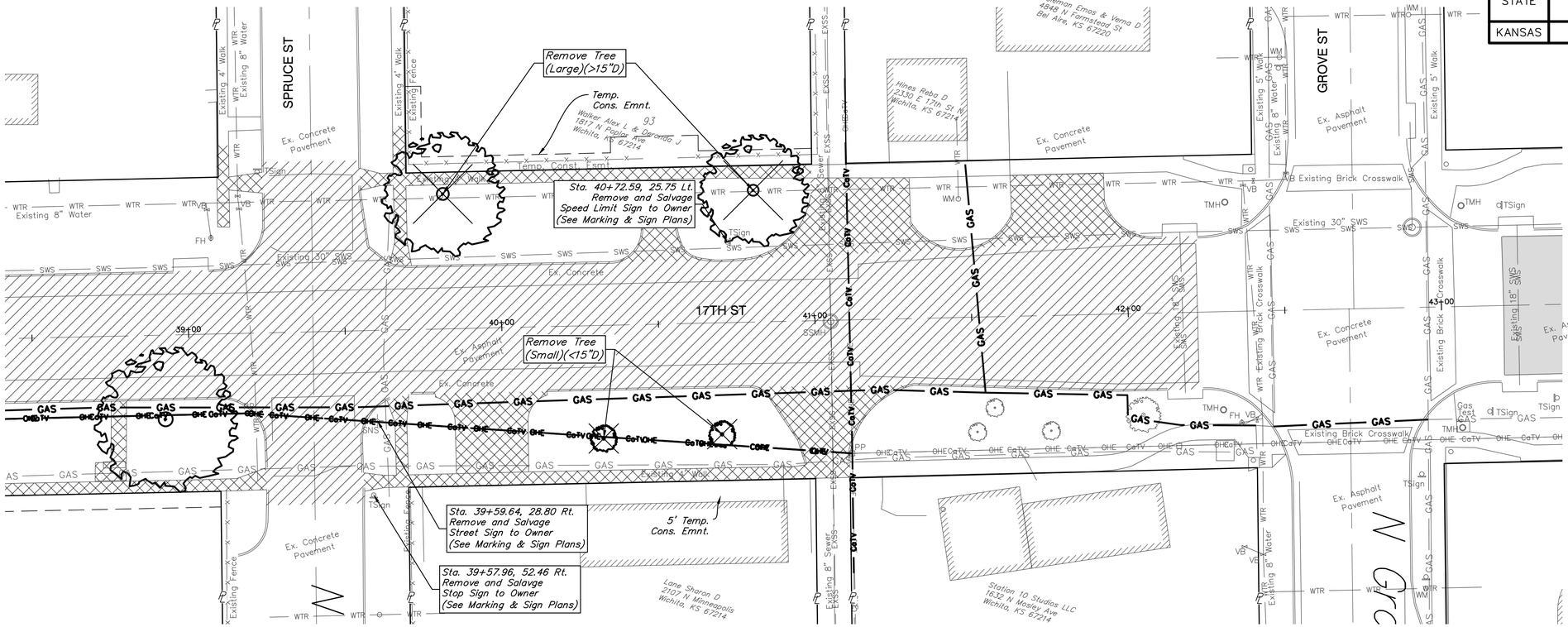
DESIGN: BDC DRAWN: TS

DATE: August 5, 2025

SHEET 10 OF 148

File: E:\Projects\Wichita 17th St. I-135 to Hillside (23-04-E484)\Engineering\DWG\DEMO PLANS.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	11	148



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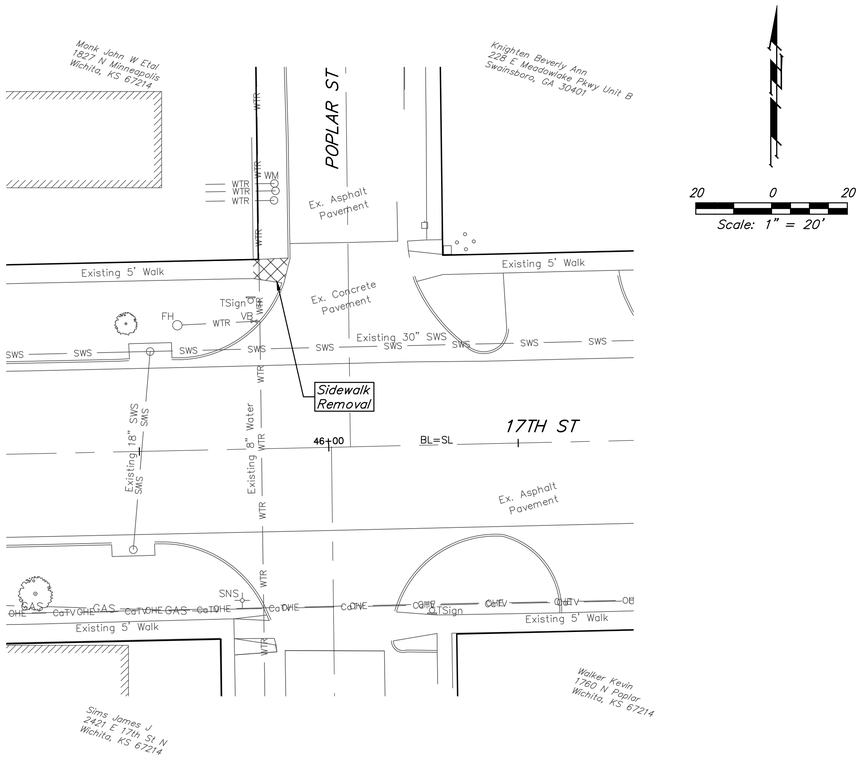
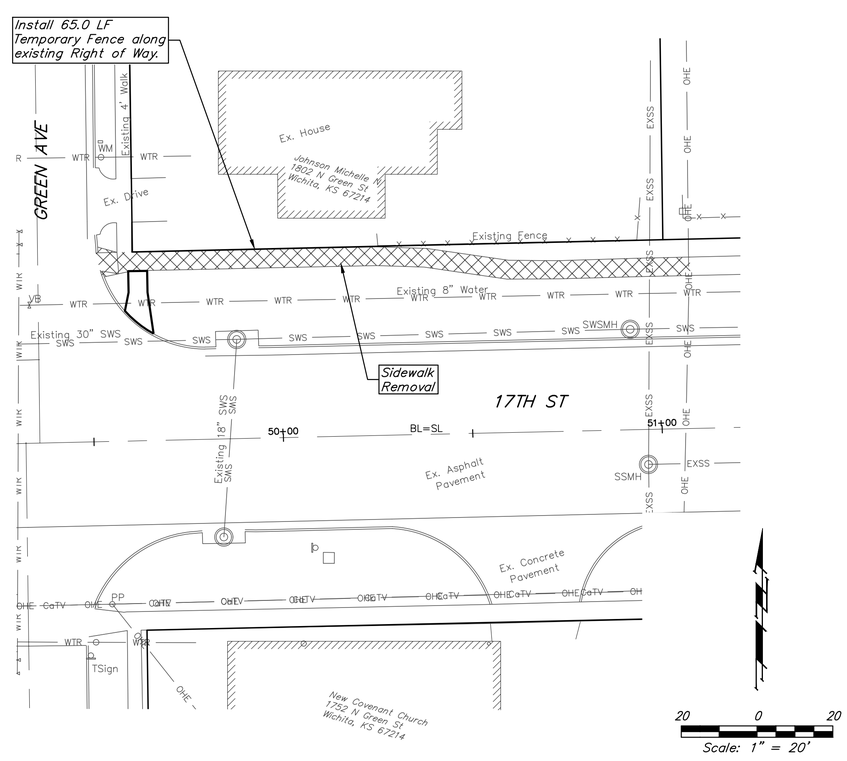




BRENT CHESNUT LICENSED 23419 08/05/2025 KANSAS PROFESSIONAL ENGINEER

BAUGHMAN COMPANY
315 Ellis St.
Wichita, KS 67211
316-262-7271
BaughmanCo.com

CITY OF WICHITA
17TH STREET

DEMO PLANS 6

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

DESIGN: BDC DRAWN: TS

DATE: August 5, 2025

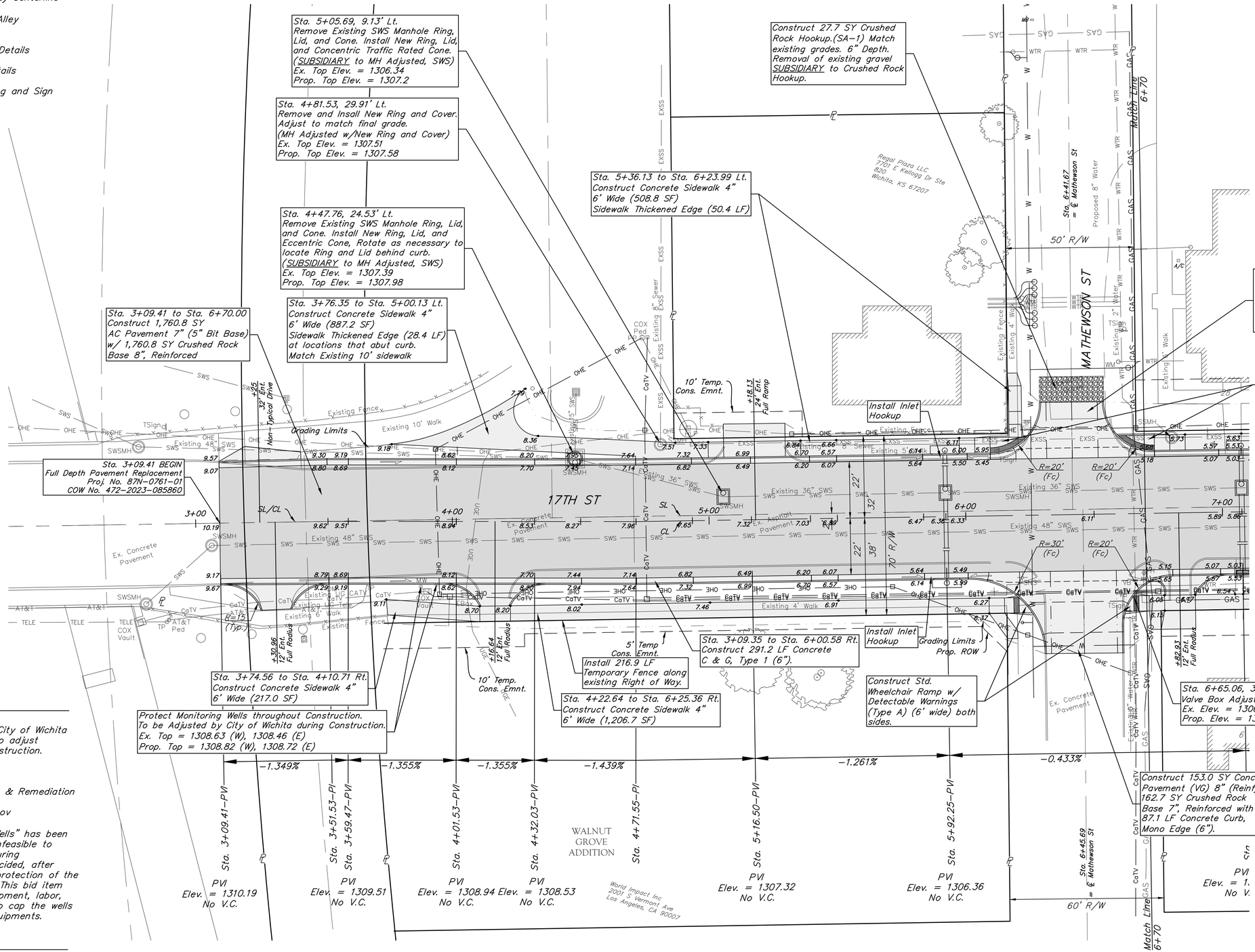
SHEET 11 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\DEMO PLANS.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	12	148

GENERAL NOTES:

1. Profile Stations, PVI, BVC, PC, PVI, EVC, PRC, Slope, etc. are to Roadway Centerline
2. See Sheet 52 for Entrance / Alley Quantities
3. See Sheet 37 for Intersection Details
4. See Sheet 47 for Entrance Details
5. See Sheet 99 Pavement Marking and Sign Plan



MONITORING WELLS:

1. Contractor to coordinate with City of Wichita Environmental Health Division to adjust Monitoring Well Lids during construction.

   Darren Brown, PG
   Program Manager
   Environmental Assessment & Remediation
   Ph: 316–268–8355
   E–Mail: DLbrown@wichita.gov

2. The bid item "Cap Monitoring Wells" has been included in case it becomes unfeasible to protect the monitoring wells during construction. The owner will decided, after review with the contractor, if protection of the wells cannot be accomplished. This bid item shall include all necessary equipment, labor, coordination, permitting, ect. to cap the wells per City, State and Federal equipments.

EARTHWORK BALANCE:

10,951 CY	Excavation (VMF = 1.0)
20,376 SY	Pavement &/or Curb Removed
4,379 CY	Sidewalk, Drive, &/or Pkg Lot Removed
10 CY	Fill Compacted (90% Density)
0 CY	Fill Compacted (95% Density)

BRENT CHESNUT LICENSED 23419 08/05/2025 KANSAS PROFESSIONAL ENGINEER

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BaughmanCo.com

CITY OF WICHITA
17TH STREET

PAVING PLANS 1

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

DESIGN: BDC DRAWN: TS

DATE: August 5, 2025

SHEET 12 OF 148

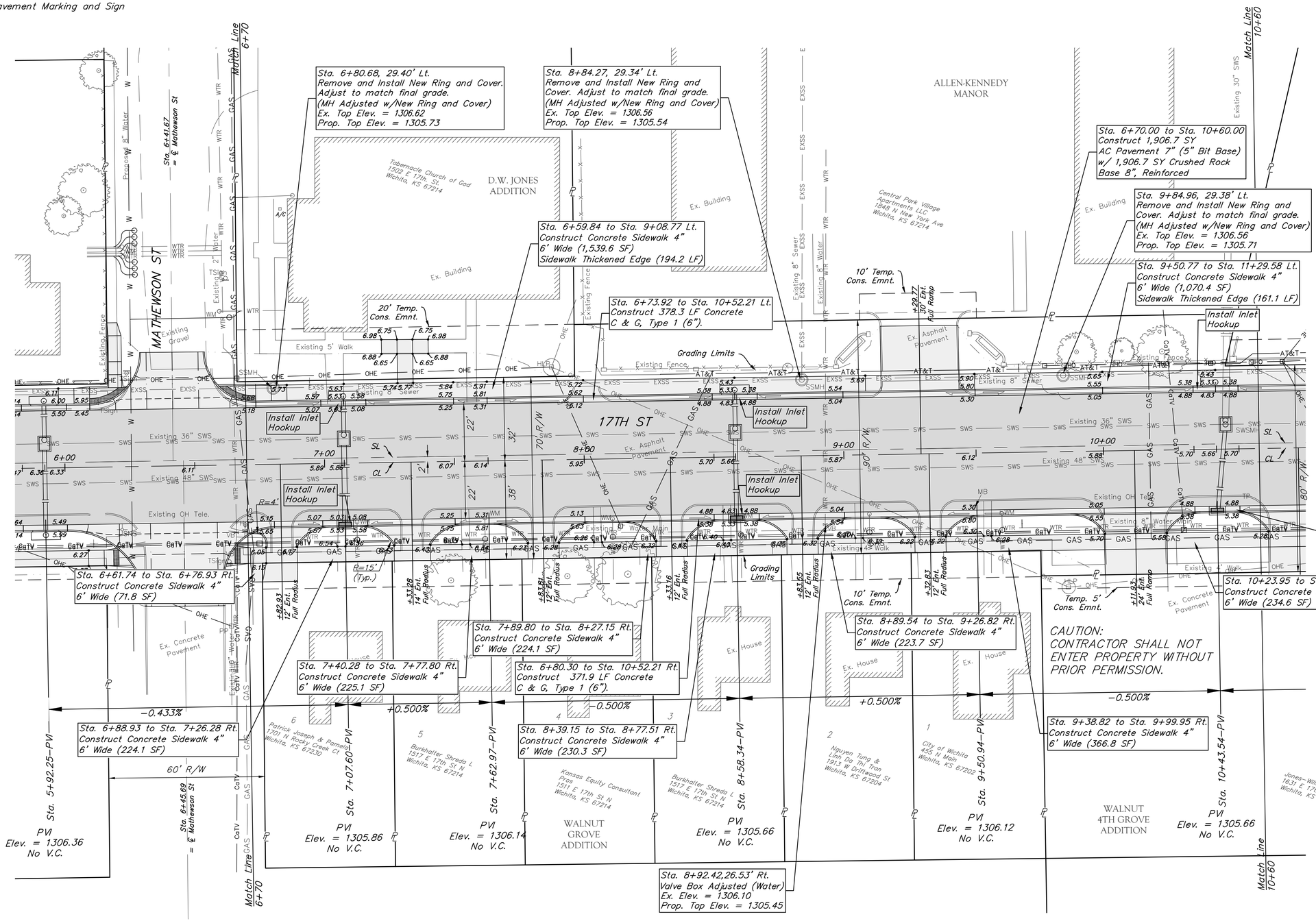
File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\PAVING PLANS.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	13	148

GENERAL NOTES:

1. Profile Stations, PVI, BVC, PC, PVI, EVC, PRC, Slope, etc. are to Roadway Centerline
2. See Sheet 52 for Entrance / Alley Quantities
3. See Sheet 47 for Entrance Details
4. See Sheet 99 Pavement Marking and Sign Plan

20 0 20
Scale: 1" = 20'



BRENT CHESNUTT LICENSED 23419 08/05/2025 KANSAS PROFESSIONAL ENGINEER

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316-262-7271
BaughmanCo.com

CITY OF WICHITA
17TH STREET

PAVING PLANS 2

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

DESIGN: BDC DRAWN: TS

DATE: August 5, 2025

SHEET 13 OF 148

File: E:\Projects\Wichita 17th St. I-135 to Hillside (23-04-E484)\Engineering\DWG\PAVING PLANS.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	14	148

GENERAL NOTES:

1. Profile Stations, PVI, BVC, PC, PVI, EVC, PRC, Slope, etc. are to Roadway Centerline
2. See Sheet 52 for Entrance / Alley Quantities
3. See Sheet 37 for Intersection Details
4. See Sheet 47 for Entrance Details
5. See Sheet 99 Pavement Marking and Sign Plan

MONITORING WELLS:

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   Program Manager
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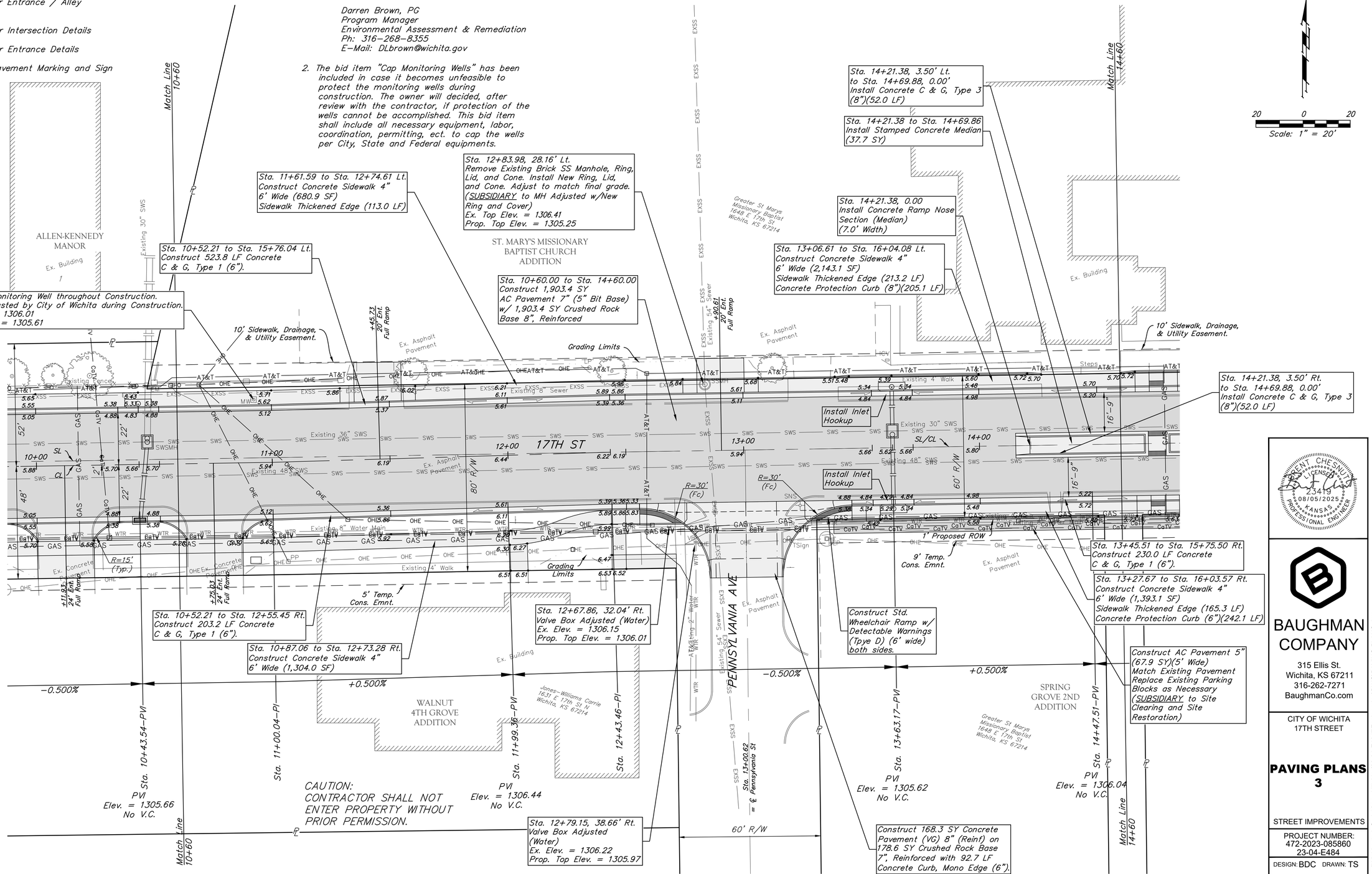

BRENT CHESNUT LICENSED 23419 08/05/2025 KANSAS PROFESSIONAL ENGINEER

BAUGHMAN COMPANY
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Wichita, KS 67211
316-262-7271
BaughmanCo.com

CITY OF WICHITA
17TH STREET

PAVING PLANS 3

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

DESIGN: BDC DRAWN: TS

DATE: August 5, 2025

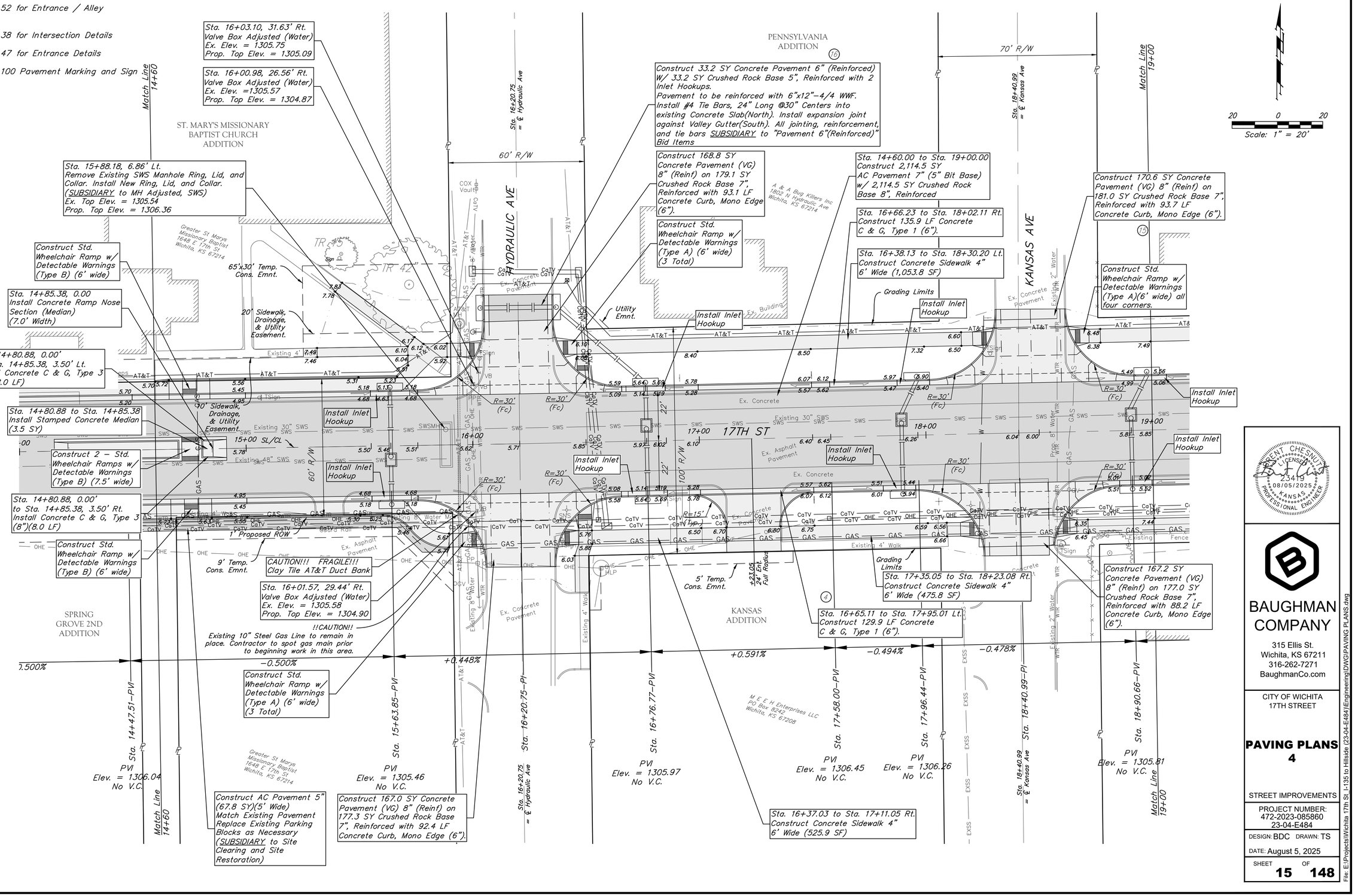
SHEET 14 OF 148

File: E:\Projects\Wichita 17th St I-135 to Hillside (23-04-E484)\Engineering\DWG\PAVING PLANS.dwg

GENERAL NOTES:

1. Profile Stations, PVI, BVC, PC, PVI, EVC, PRC, Slope, etc. are to Roadway Centerline
2. See Sheet 52 for Entrance / Alley Quantities
3. See Sheet 38 for Intersection Details
4. See Sheet 47 for Entrance Details
5. See Sheet 100 Pavement Marking and Sign Plan

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	15	148



BRENT CHESNUT 23419 08/05/2025 KANSAS PROFESSIONAL ENGINEER

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Wichita, KS 67211
316-262-7271
BaughmanCo.com

CITY OF WICHITA
17TH STREET

PAVING PLANS
4

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

DESIGN: BDC DRAWN: TS

DATE: August 5, 2025

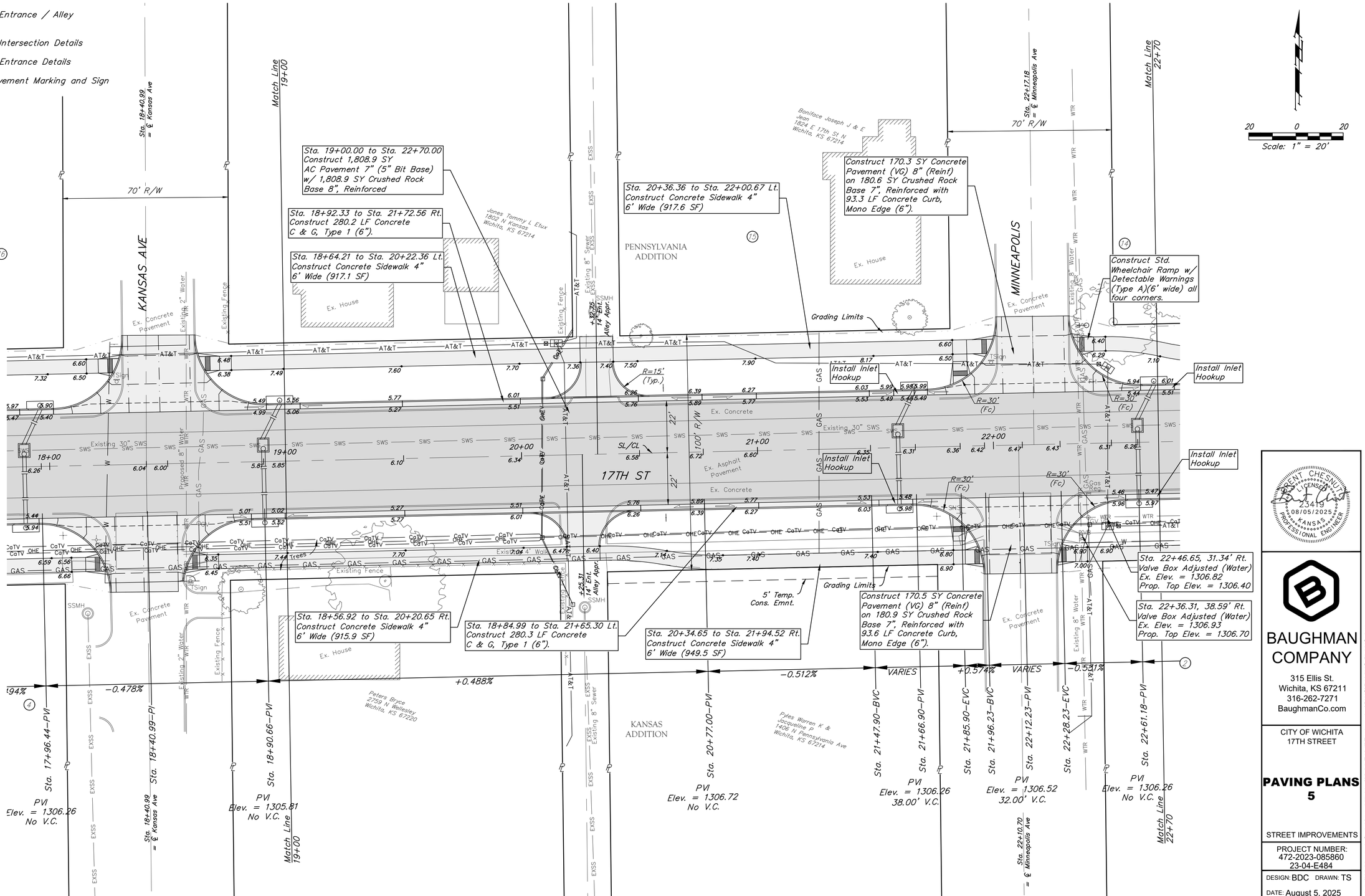
SHEET 15 OF 148

File: E:\Projects\Wichita 17th St. I-135 to Hillside (23-04-E484)\Engineering\DWG\PAVING PLANS.dwg

GENERAL NOTES:

1. Profile Stations, PVI, BVC, PC, PVI, EVC, PRC, Slope, etc. are to Roadway Centerline
2. See Sheet 52 for Entrance / Alley Quantities
3. See Sheet 39 for Intersection Details
4. See Sheet 47 for Entrance Details
5. See Sheet 100 Pavement Marking and Sign Plan

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	16	148



BRENT CHESNUT LICENSED 23419 KANSAS PROFESSIONAL ENGINEER 08/05/2025

BAUGHMAN COMPANY
315 Ellis St.
Wichita, KS 67211
316-262-7271
BaughmanCo.com

CITY OF WICHITA
17TH STREET

PAVING PLANS
5

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

DESIGN: BDC DRAWN: TS

DATE: August 5, 2025

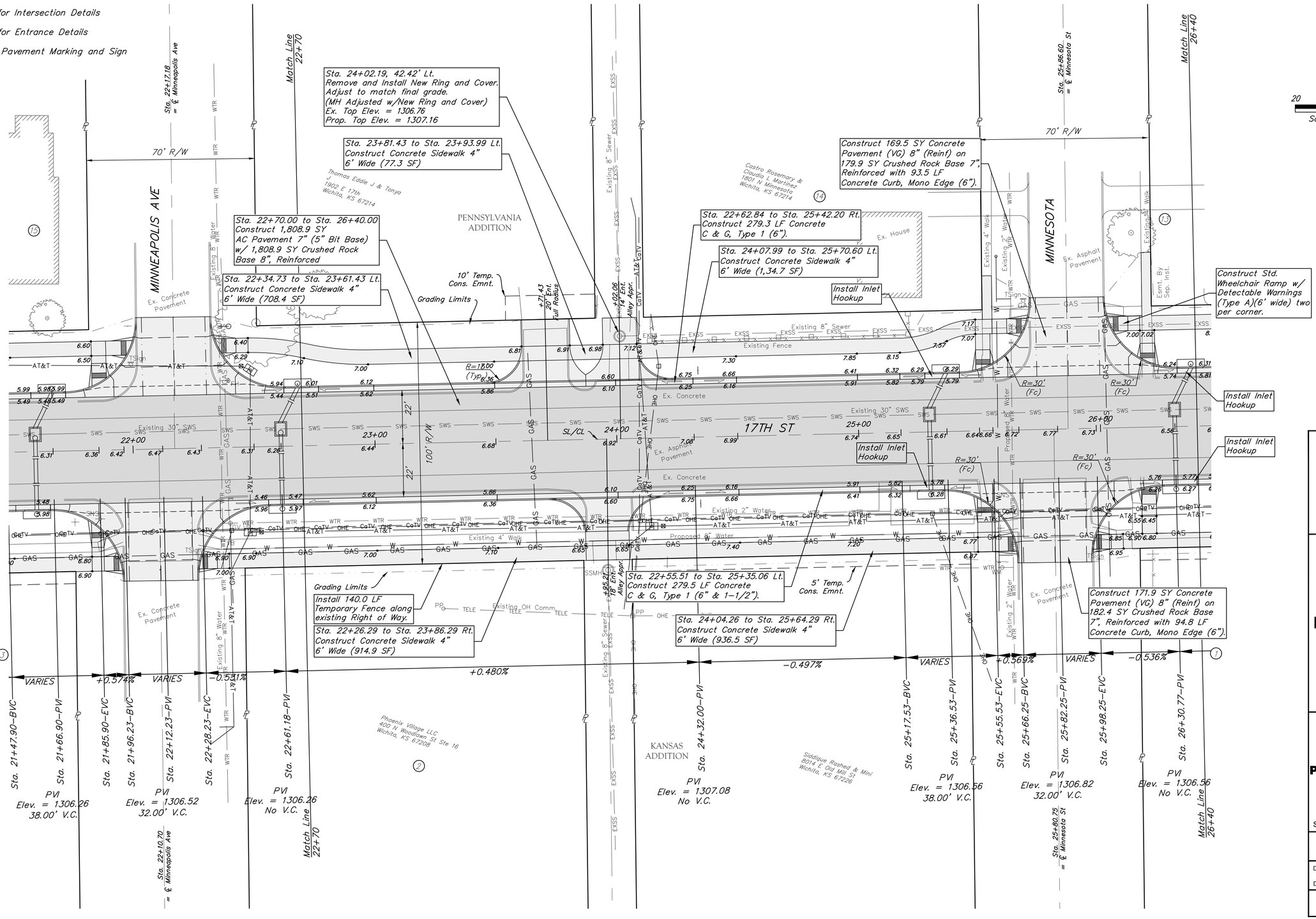
SHEET 16 OF 148

File: E:\Projects\Wichita 17th St. I-135 to Hillside (23-04-E484)\Engineering\DWG\PAVING PLANS.dwg

GENERAL NOTES:

1. Profile Stations, PVI, BVC, PC, PVI, EVC, PRC, Slope, etc. are to Roadway Centerline
2. See Sheet 52 for Entrance / Alley Quantities
3. See Sheet 39 for Intersection Details
4. See Sheet 47 for Entrance Details
5. See Sheet 100 Pavement Marking and Sign Plan

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	17	148



BAUGHMAN COMPANY
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CITY OF WICHITA
17TH STREET

PAVING PLANS
6

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

DESIGN: BDC DRAWN: TS

DATE: August 5, 2025

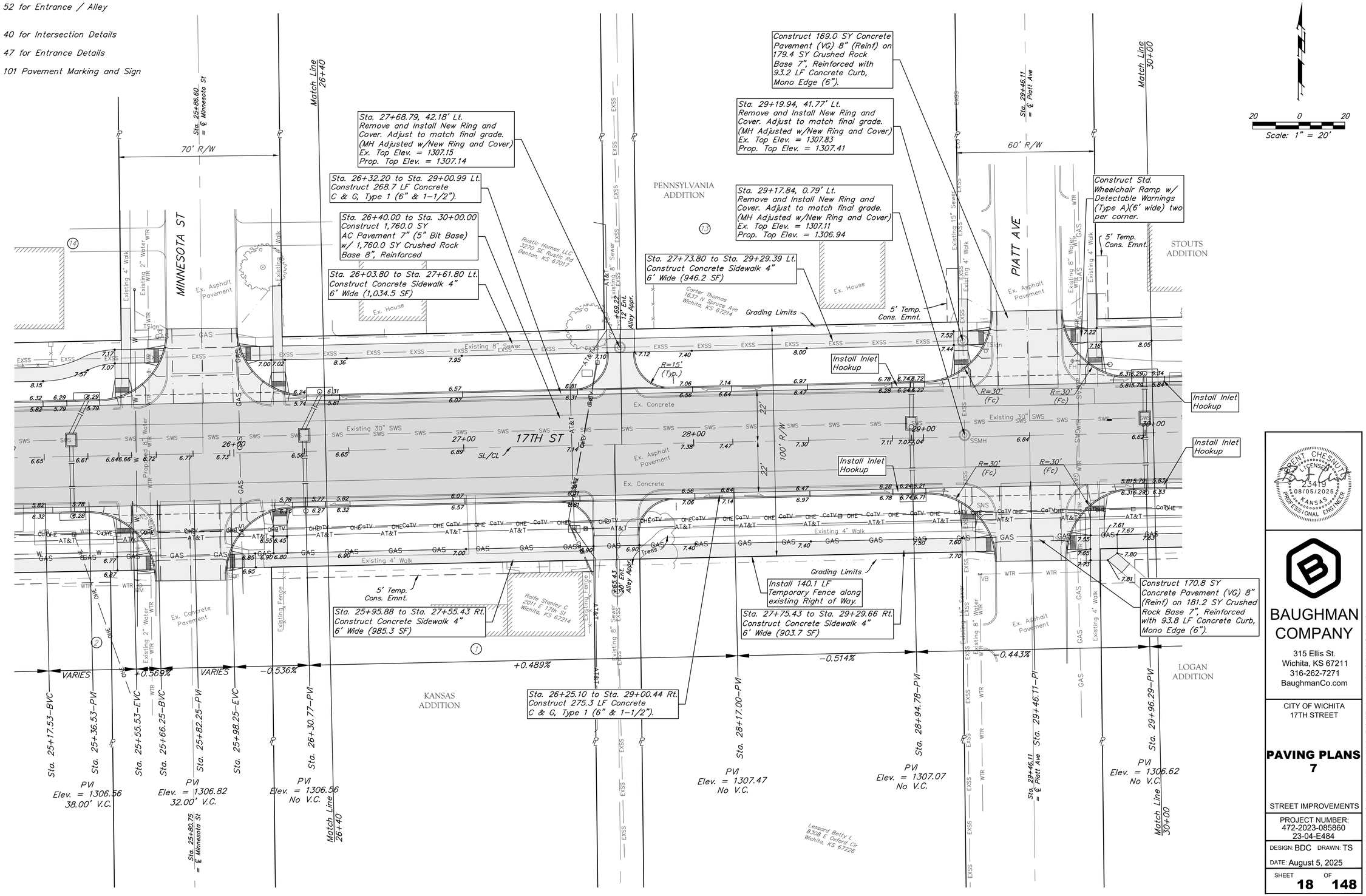
SHEET 17 OF 148

File: E:\Projects\Wichita 17th St. I-135 to Hillside (23-04-E484)\Engineering\DWG\PAVING PLANS.dwg

GENERAL NOTES:

1. Profile Stations, PVI, BVC, PC, PVI, EVC, PRC, Slope, etc. are to Roadway Centerline
2. See Sheet 52 for Entrance / Alley Quantities
3. See Sheet 40 for Intersection Details
4. See Sheet 47 for Entrance Details
5. See Sheet 101 Pavement Marking and Sign Plan

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	18	148



20 0 20
Scale: 1" = 20'

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CITY OF WICHITA
17TH STREET

PAVING PLANS
7

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

DESIGN: BDC DRAWN: TS

DATE: August 5, 2025

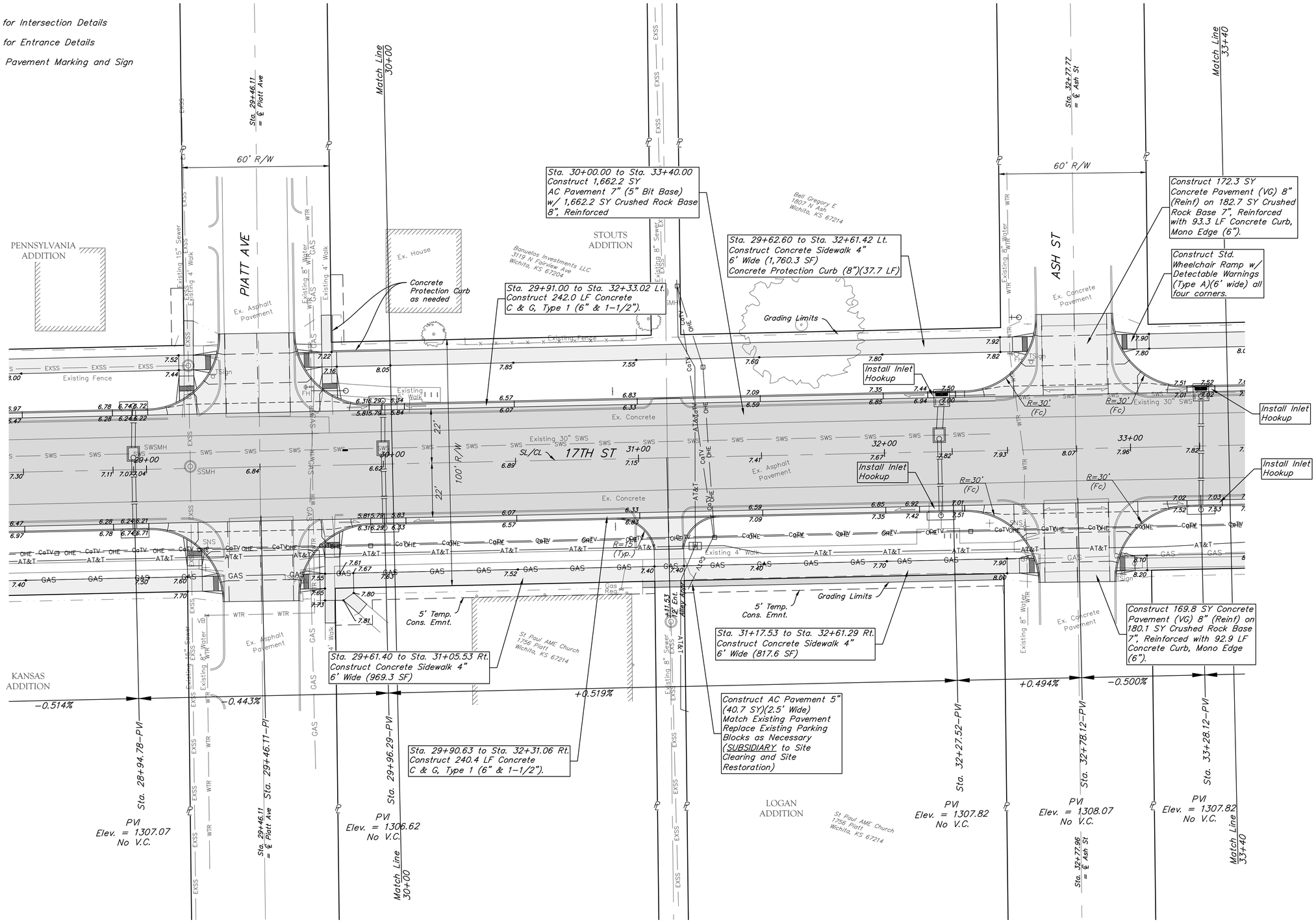
SHEET 18 OF 148

File: E:\Projects\Wichita 17th St. I-135 to Hillside (23-04-E484)\Engineering\DWG\PAVING PLANS.dwg

GENERAL NOTES:

1. Profile Stations, PVI, BVC, PC, PVI, EVC, PRC, Slope, etc. are to Roadway Centerline
2. See Sheet 52 for Entrance / Alley Quantities
3. See Sheet 40 for Intersection Details
4. See Sheet 47 for Entrance Details
5. See Sheet 101 Pavement Marking and Sign Plan

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	19	148



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CITY OF WICHITA
17TH STREET

PAVING PLANS
8

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

DESIGN: BDC DRAWN: TS

DATE: August 5, 2025

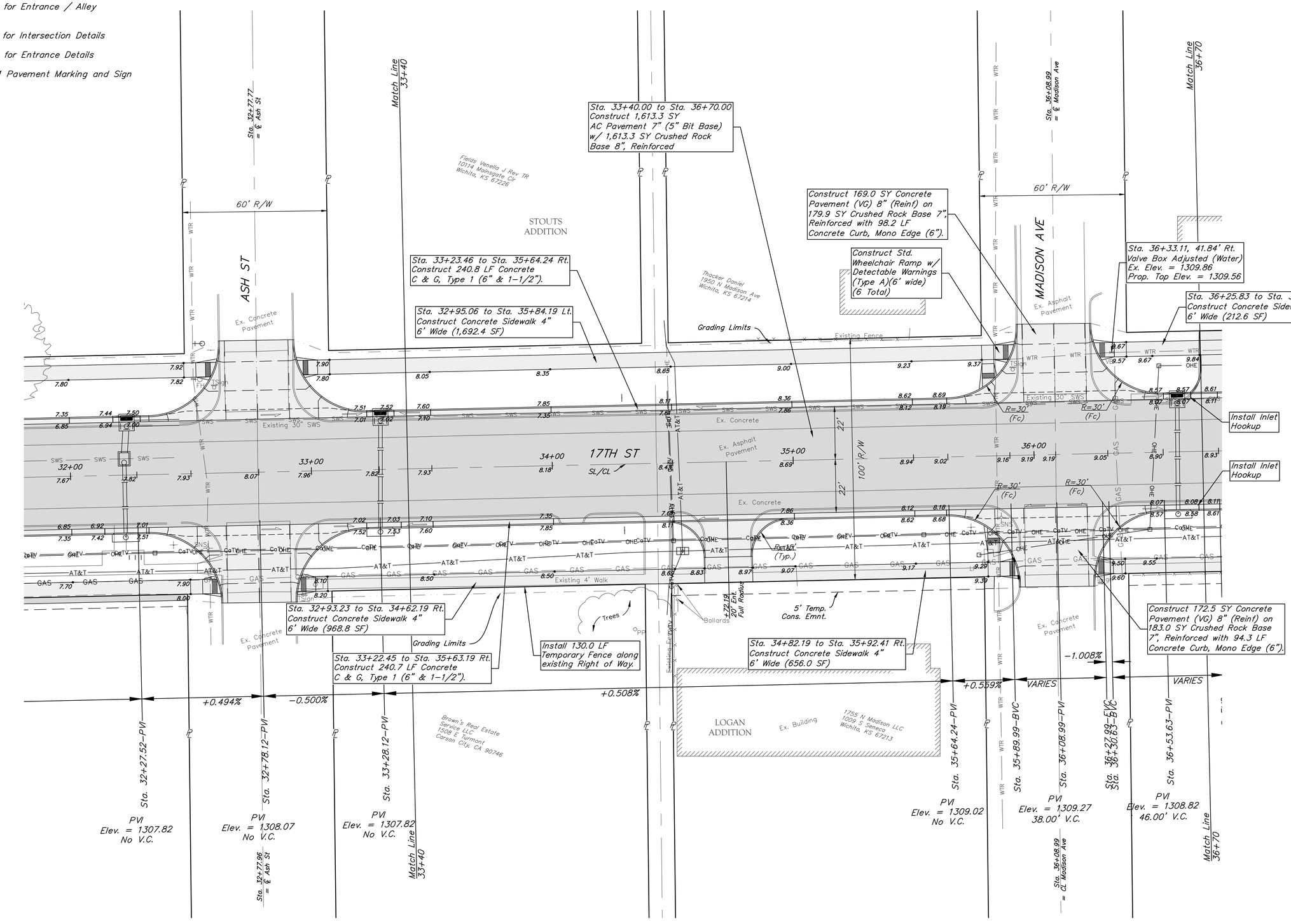
SHEET 19 OF 148

File: E:\Projects\Wichita 17th St. I-135 to Hillside (23-04-E484)\Engineering\DWG\PAVING PLANS.dwg

GENERAL NOTES:

1. Profile Stations, PVI, BVC, PC, PVI, EVC, PRC, Slope, etc. are to Roadway Centerline
2. See Sheet 52 for Entrance / Alley Quantities
3. See Sheet 41 for Intersection Details
4. See Sheet 47 for Entrance Details
5. See Sheet 101 Pavement Marking and Sign Plan

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	20	148



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CITY OF WICHITA
17TH STREET

PAVING PLANS
9

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

DESIGN: BDC DRAWN: TS

DATE: August 5, 2025

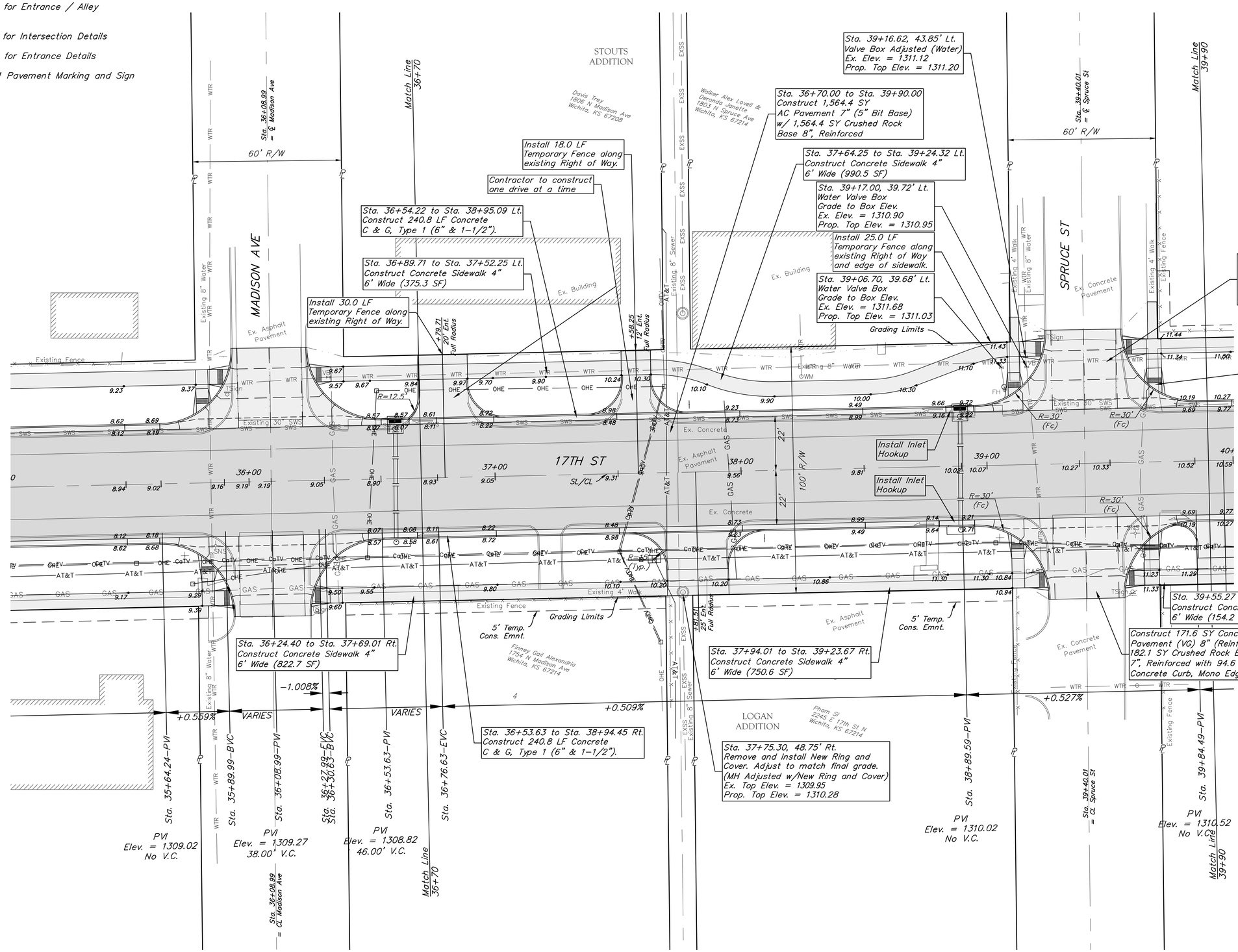
SHEET 20 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\PAVING PLANS.dwg

GENERAL NOTES:

1. Profile Stations, PVI, BVC, PC, PVI, EVC, PRC, Slope, etc. are to Roadway Centerline
2. See Sheet 52 for Entrance / Alley Quantities
3. See Sheet 41 for Intersection Details
4. See Sheet 47 for Entrance Details
5. See Sheet 101 Pavement Marking and Sign Plan

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	21	148



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CITY OF WICHITA
17TH STREET

PAVING PLANS
10

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

DESIGN: BDC DRAWN: TS

DATE: August 5, 2025

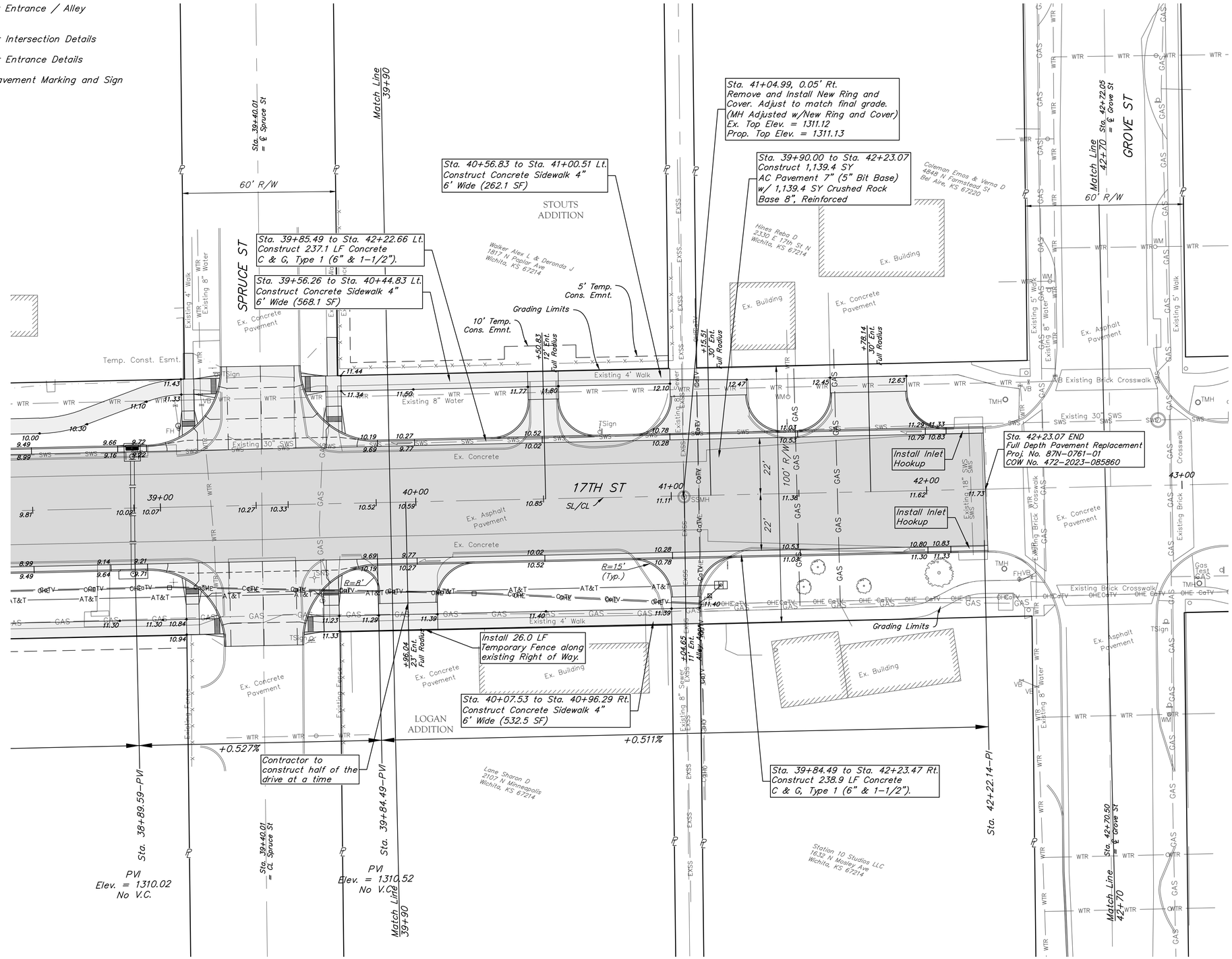
SHEET 21 OF 148

File: E:\Projects\Wichita 17th St. I-135 to Hillside (23-04-E484)\Engineering\DWG\PAVING PLANS.dwg

GENERAL NOTES:

1. Profile Stations, PVI, BVC, PC, PVI, EVC, PRC, Slope, etc. are to Roadway Centerline
2. See Sheet 52 for Entrance / Alley Quantities
3. See Sheet 37 for Intersection Details
4. See Sheet 47 for Entrance Details
5. See Sheet 101 Pavement Marking and Sign Plan

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	22	148



20 0 20
Scale: 1" = 20'

BRENT CHESNUT
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23419
08/05/2025
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CITY OF WICHITA
17TH STREET

PAVING PLANS
11

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

DESIGN: BDC DRAWN: TS

DATE: August 5, 2025

SHEET 22 OF 148

File: E:\Projects\Wichita 17th St. I-135 to Hillside (23-04-E484)\Engineering\DWG\PAVING PLANS.dwg

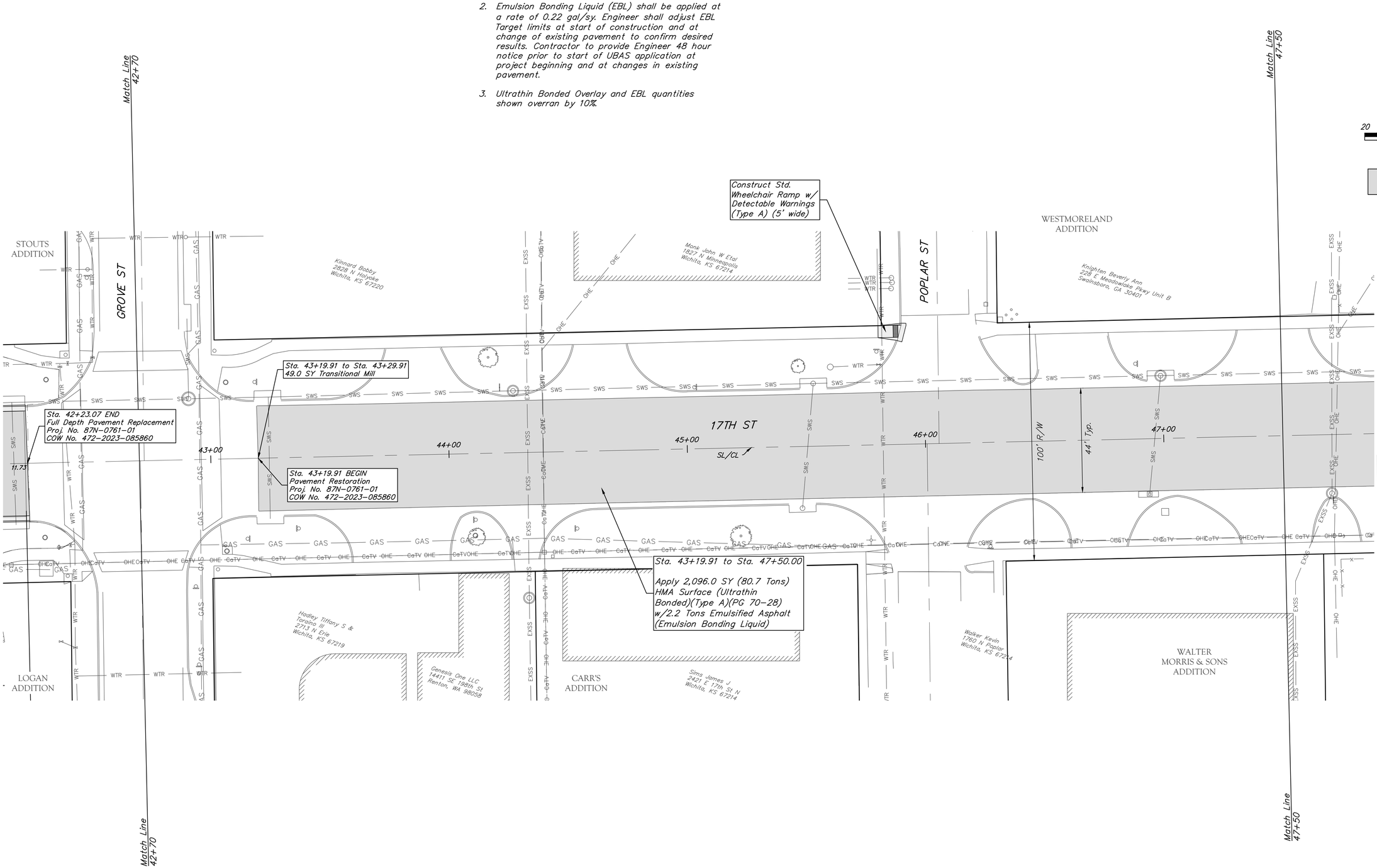
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	23	148

GENERAL NOTES:

1. See Sheet 102 Pavement Marking and Sign Plan

UBAS Notes

1. The target application rate of the Ultrathin Bonded Overlay shall be 70 lbs/sy.
2. Emulsion Bonding Liquid (EBL) shall be applied at a rate of 0.22 gal/sy. Engineer shall adjust EBL Target limits at start of construction and at change of existing pavement to confirm desired results. Contractor to provide Engineer 48 hour notice prior to start of UBAS application at project beginning and at changes in existing pavement.
3. Ultrathin Bonded Overlay and EBL quantities shown overran by 10%.



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CITY OF WICHITA
17TH STREET

PAVING PLANS
12

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

DESIGN: BDC DRAWN: TS

DATE: August 5, 2025

SHEET 23 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\PAVING PLANS.dwg

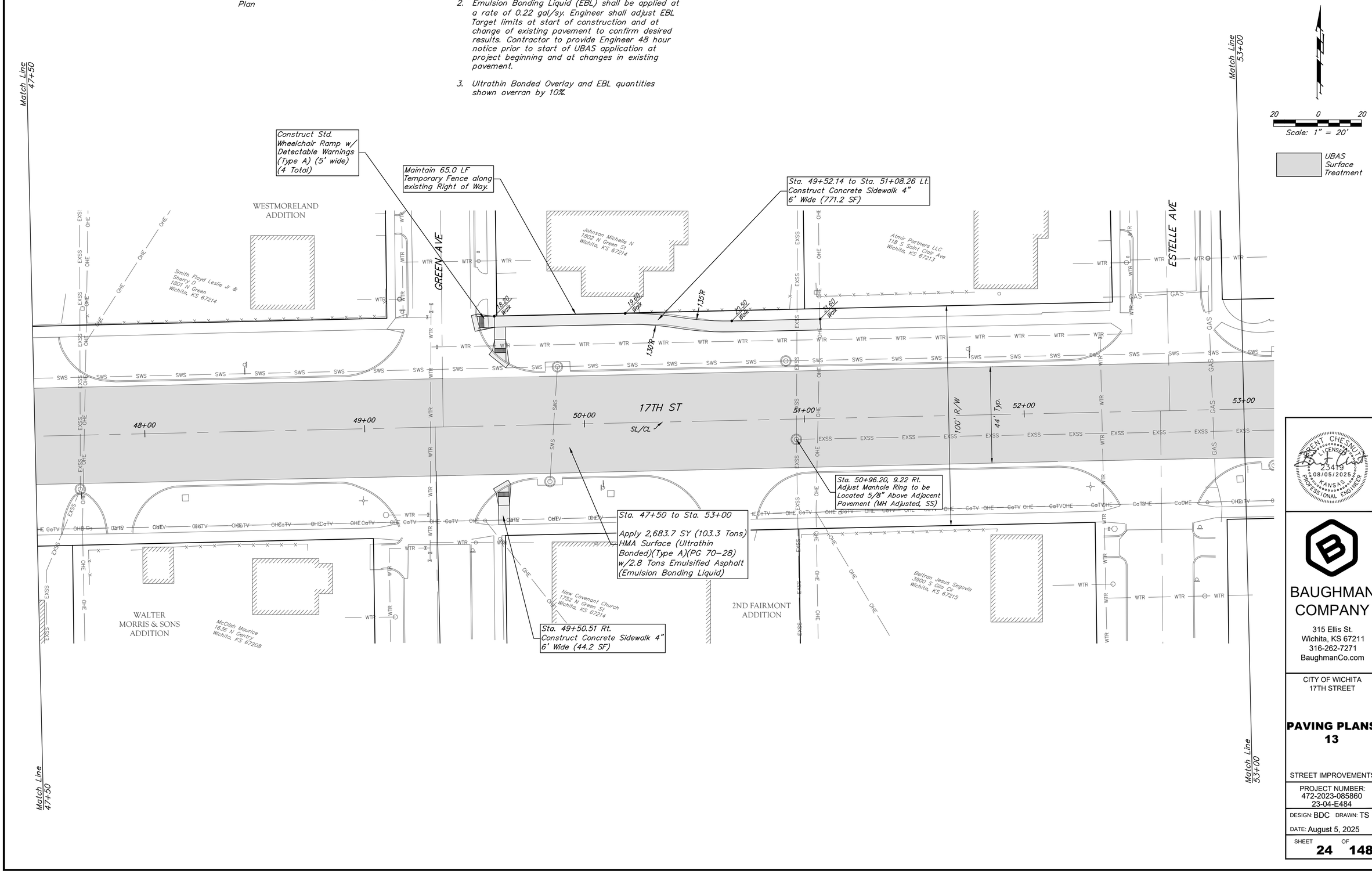
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	24	148

GENERAL NOTES:

1. See Sheet 103 Pavement Marking and Sign Plan

USBA #1 Notes

1. The target application rate of the Ultrathin Bonded Overlay shall be 70 lbs/sy.
2. Emulsion Bonding Liquid (EBL) shall be applied at a rate of 0.22 gal/sy. Engineer shall adjust EBL Target limits at start of construction and at change of existing pavement to confirm desired results. Contractor to provide Engineer 48 hour notice prior to start of UBAS application at project beginning and at changes in existing pavement.
3. Ultrathin Bonded Overlay and EBL quantities shown overran by 10%.



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CITY OF WICHITA
17TH STREET

PAVING PLANS
13

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

DESIGN: BDC DRAWN: TS

DATE: August 5, 2025

SHEET 24 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\PAVING PLANS.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	25	148

GENERAL NOTES:

1. See Sheet 103 Pavement Marking and Sign Plan

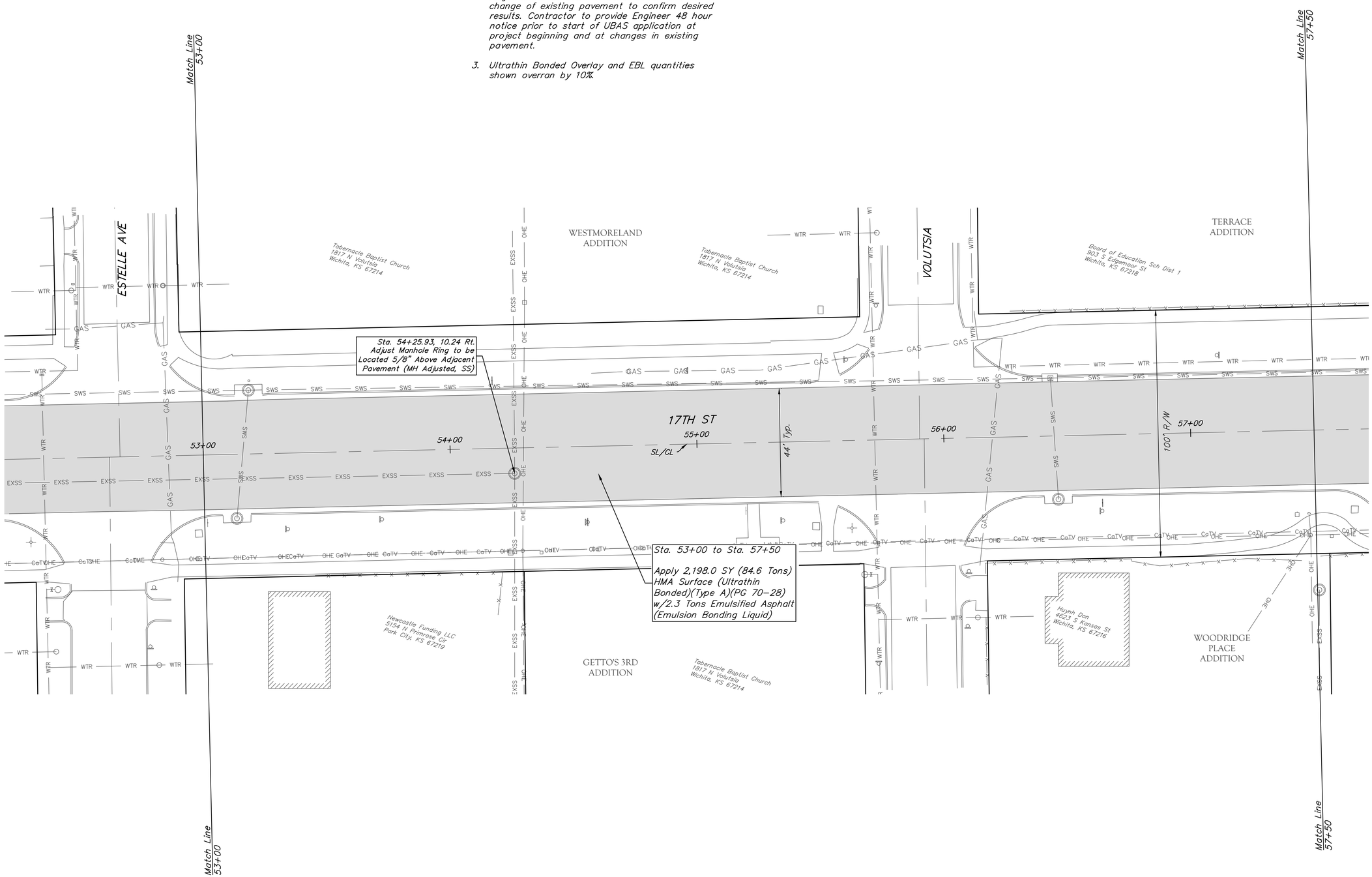
USBA Notes

1. The target application rate of the Ultrathin Bonded Overlay shall be 70 lbs/sy.
2. Emulsion Bonding Liquid (EBL) shall be applied at a rate of 0.22 gal/sy. Engineer shall adjust EBL Target limits at start of construction and at change of existing pavement to confirm desired results. Contractor to provide Engineer 48 hour notice prior to start of UBAS application at project beginning and at changes in existing pavement.
3. Ultrathin Bonded Overlay and EBL quantities shown overran by 10%.

20 0 20

Scale: 1" = 20'

UBAS Surface Treatment



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CITY OF WICHITA
17TH STREET

PAVING PLANS
14

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

DESIGN: BDC DRAWN: TS

DATE: August 5, 2025

SHEET 25 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\PAVING PLANS.dwg

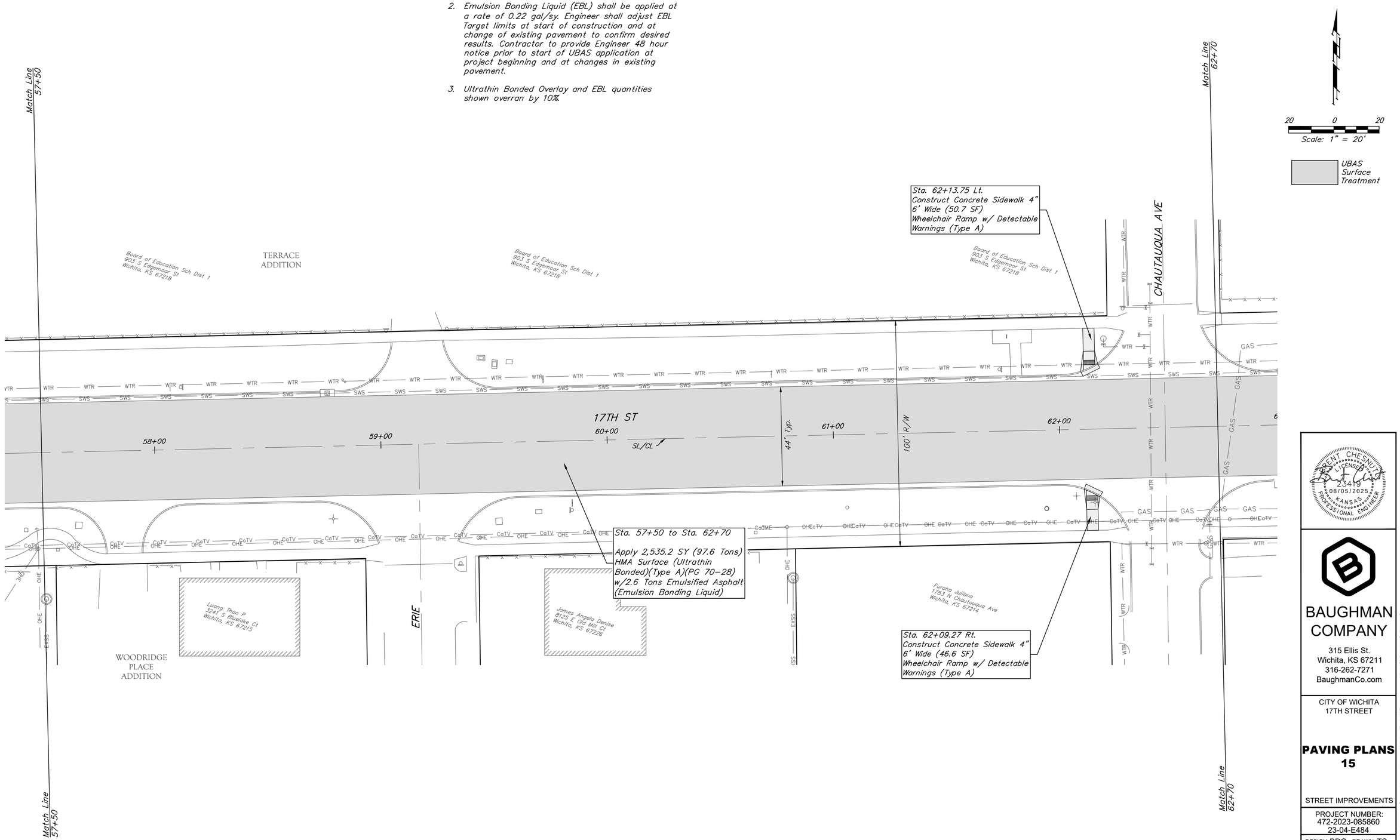
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	26	148

GENERAL NOTES:

1. See Sheet 103 Pavement Marking and Sign Plan

USBA Notes

1. The target application rate of the Ultrathin Bonded Overlay shall be 70 lbs/sy.
2. Emulsion Bonding Liquid (EBL) shall be applied at a rate of 0.22 gal/sy. Engineer shall adjust EBL Target limits at start of construction and at change of existing pavement to confirm desired results. Contractor to provide Engineer 48 hour notice prior to start of UBAS application at project beginning and at changes in existing pavement.
3. Ultrathin Bonded Overlay and EBL quantities shown overran by 10%.



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CITY OF WICHITA
17TH STREET

PAVING PLANS
15

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

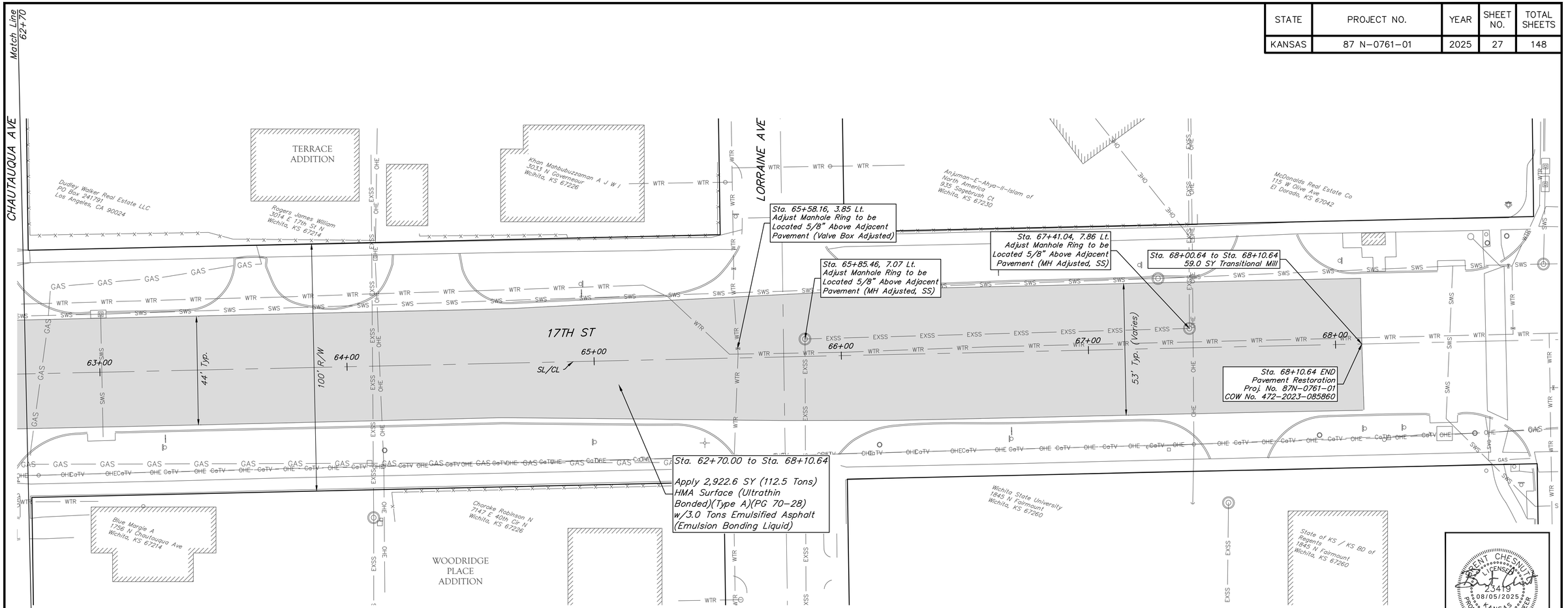
DESIGN: BDC DRAWN: TS

DATE: August 5, 2025

SHEET 26 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\PAVING PLANS.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	27	148



GENERAL NOTES:

1. See Sheet 103 Pavement Marking and Sign Plan

USBA Notes

1. The target application rate of the Ultrathin Bonded Overlay shall be 70 lbs/sy.
2. Emulsion Bonding Liquid (EBL) shall be applied at a rate of 0.22 gal/sy. Engineer shall adjust EBL Target limits at start of construction and at change of existing pavement to confirm desired results. Contractor to provide Engineer 48 hour notice prior to start of UBAS application at project beginning and at changes in existing pavement.
3. Ultrathin Bonded Overlay and EBL quantities shown overran by 10%.

20 0 20
Scale: 1" = 20'

UBAS Surface Treatment

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CITY OF WICHITA
17TH STREET

PAVING PLANS
16

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

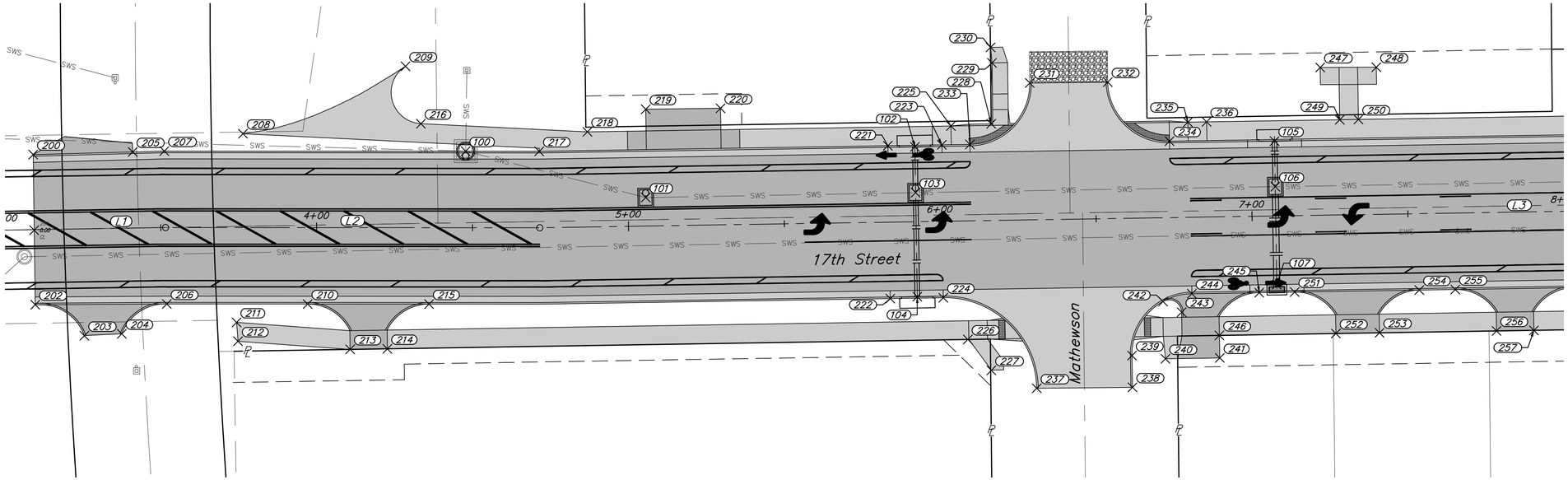
DESIGN: BDC DRAWN: TS

DATE: August 5, 2025

SHEET 27 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\PAVING PLANS.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	28	148



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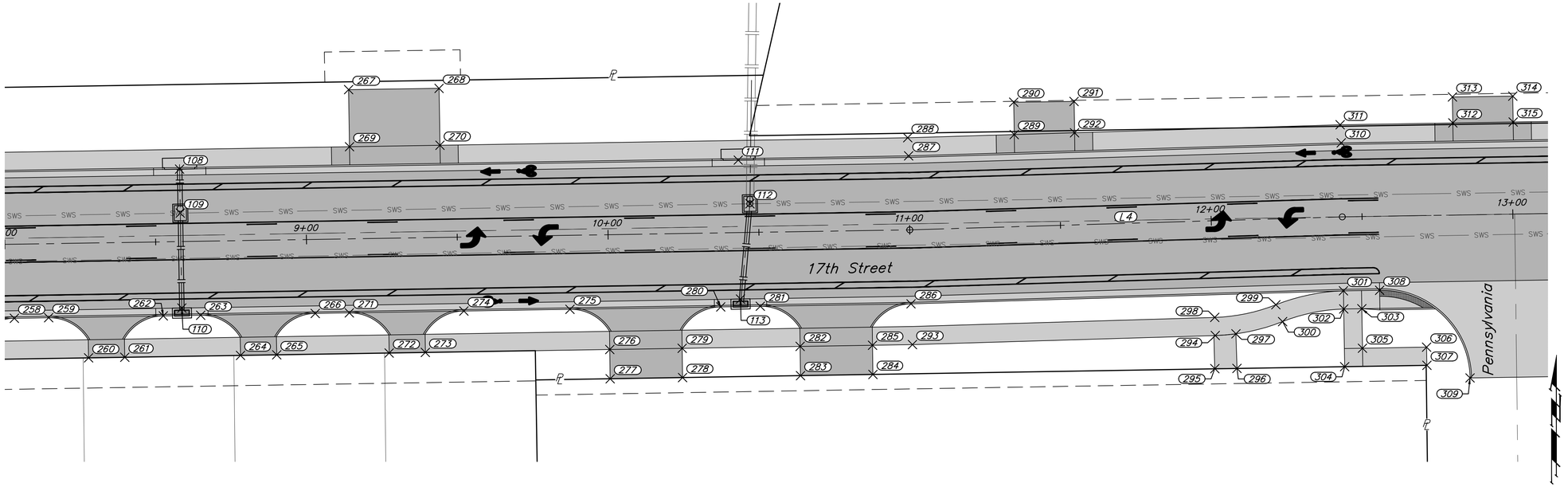
Scale: 1" = 20' Horizontal



20 0 20

Scale: 1" = 20' Horizontal

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17TH STREET

COORDINATE PLAN 1

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

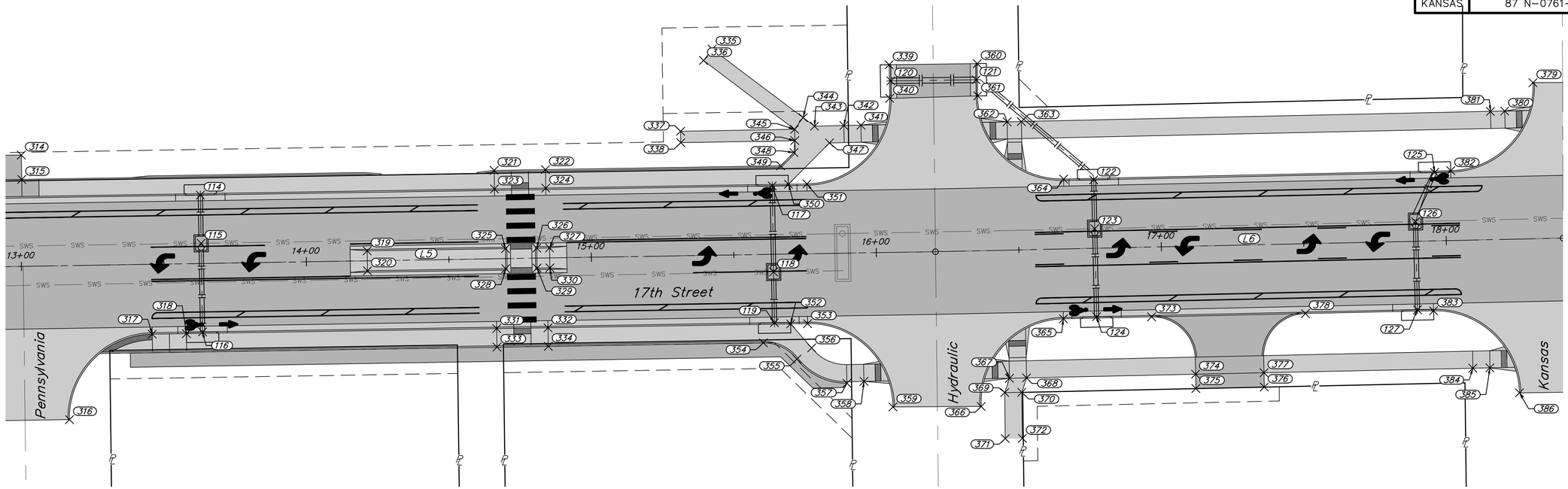
DESIGN: BDC DRAWN: BDC

DATE: August 5, 2025

SHEET 28 OF 148

File: E:\Projects\Wichita 17th St. I-135 to Hillside (23-04-E484)\Engineering\DWG\COORDINATE PLAN.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	29	148



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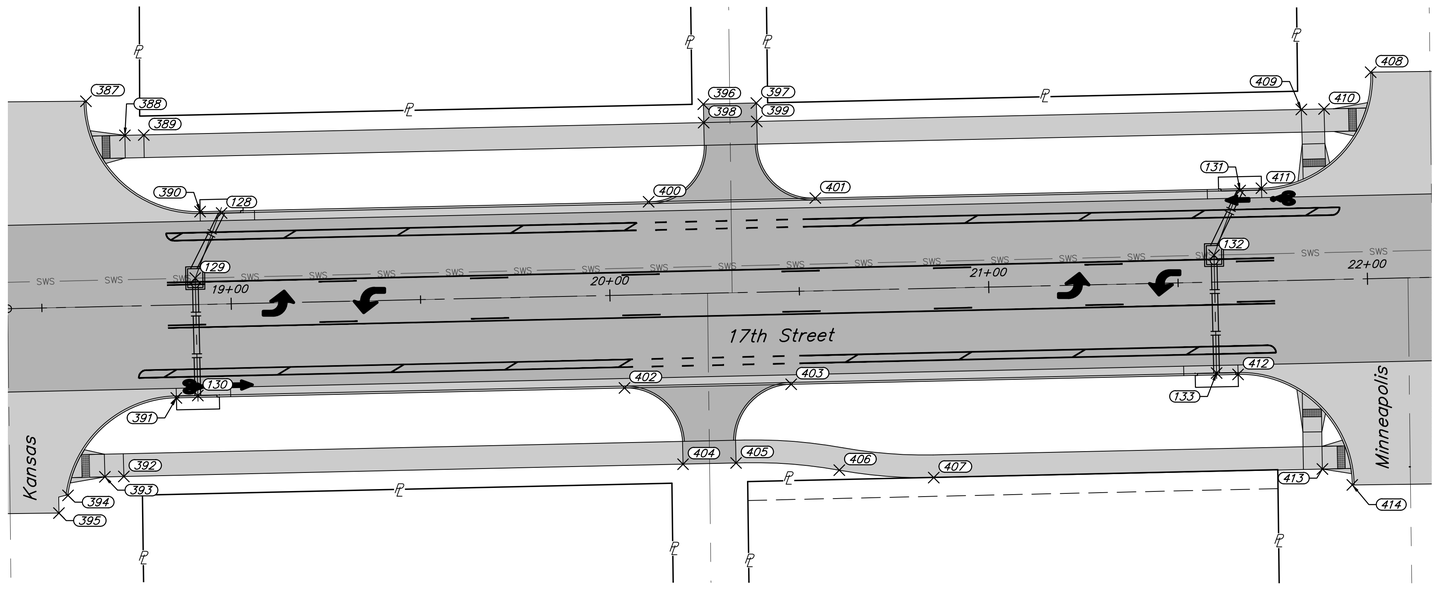

20 0 20

Scale: 1" = 20' Horizontal

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23419
08/05/2025
KANSAS
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CITY OF WICHITA
17TH STREET

COORDINATE PLAN 2

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

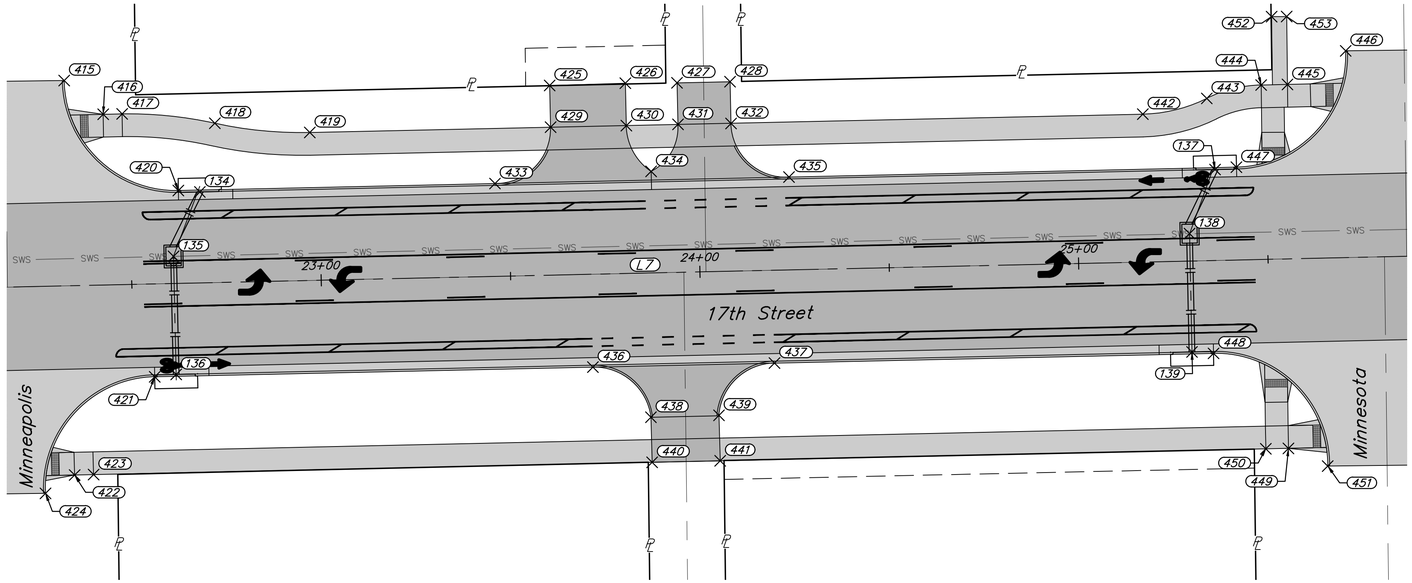
DESIGN: BDC DRAWN: BDC

DATE: August 5, 2025

SHEET 29 OF 148

File: E:\Projects\Wichita 17th St. I-135 to Hillside (23-04-E484)\Engineering\DWG\COORDINATE PLAN.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	30	148



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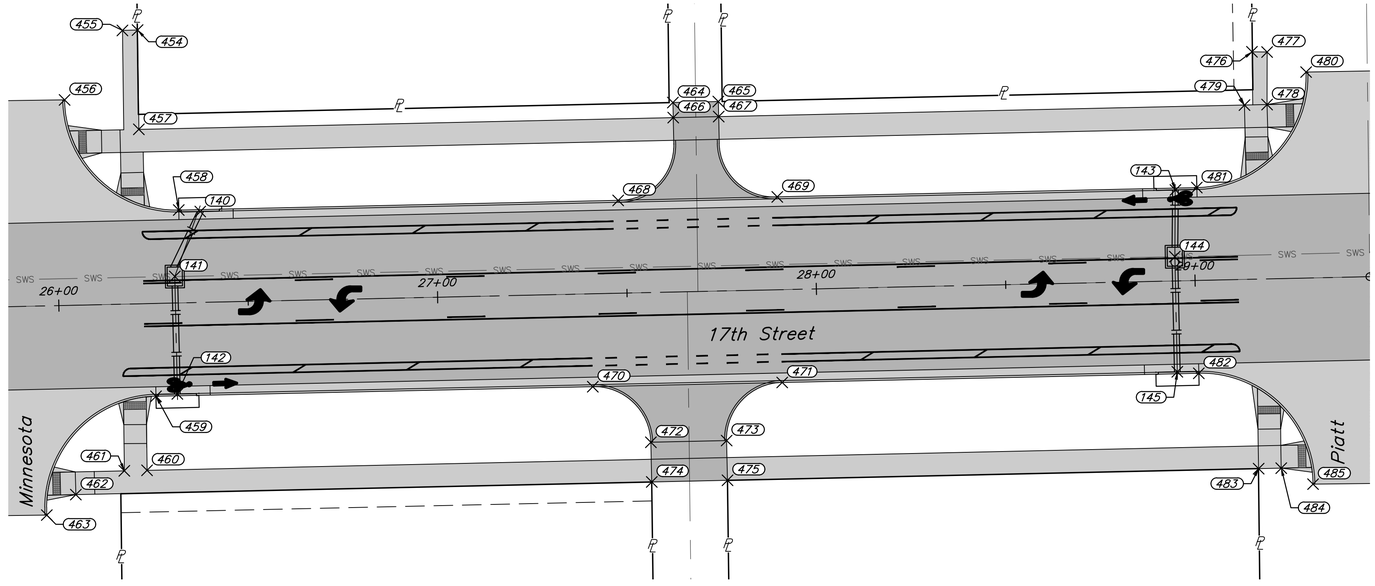

20 0 20

Scale: 1" = 20' Horizontal

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CITY OF WICHITA
17TH STREET

COORDINATE PLAN 3

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

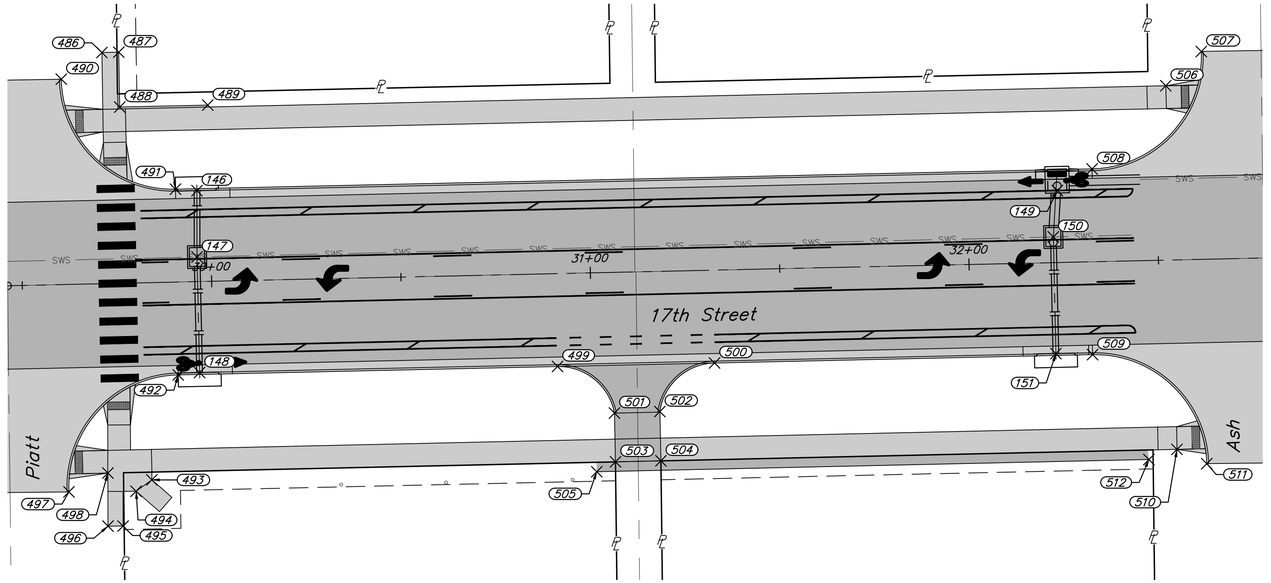
DESIGN: BDC DRAWN: BDC

DATE: August 5, 2025

SHEET 30 OF 148

File: E:\Projects\Wichita 17th St. I-135 to Hillside (23-04-E484)\Engineering\DWG\COORDINATE PLAN.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	31	148



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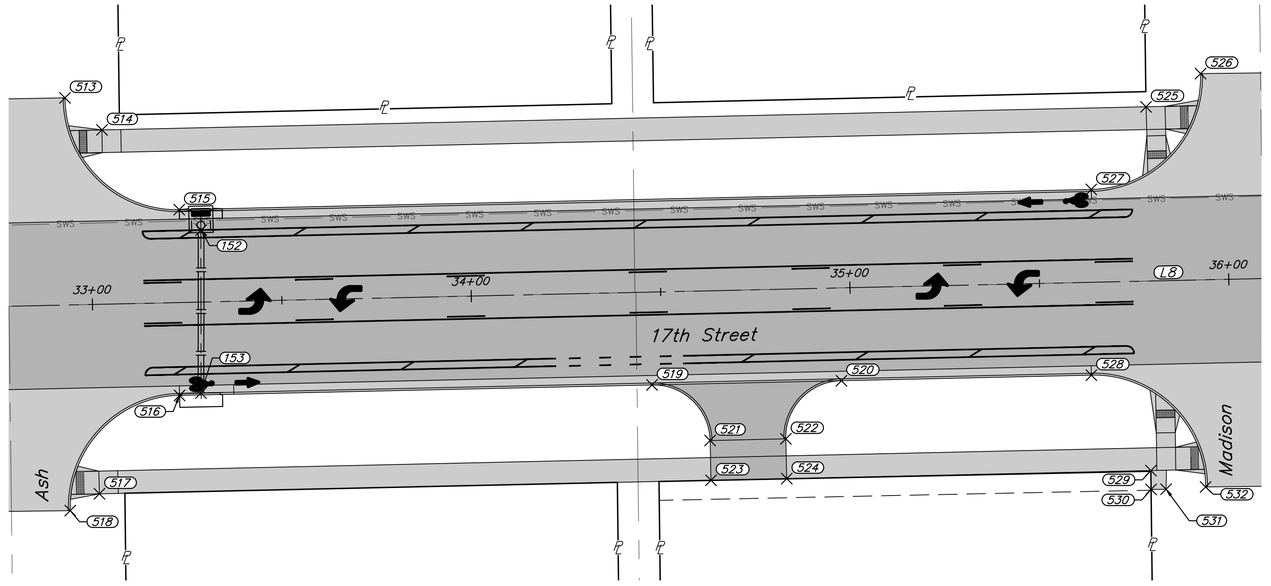

20 0 20

Scale: 1" = 20' Horizontal

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CITY OF WICHITA
17TH STREET

COORDINATE PLAN 4

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

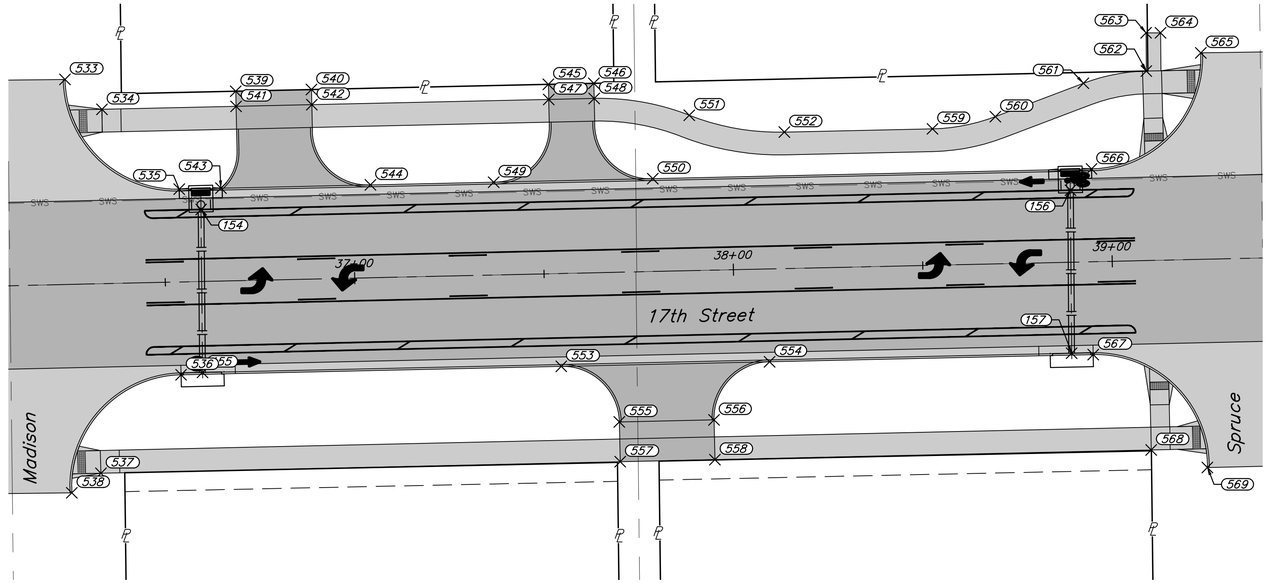
DESIGN: BDC DRAWN: BDC

DATE: August 5, 2025

SHEET 31 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\COORDINATE PLAN.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	32	148



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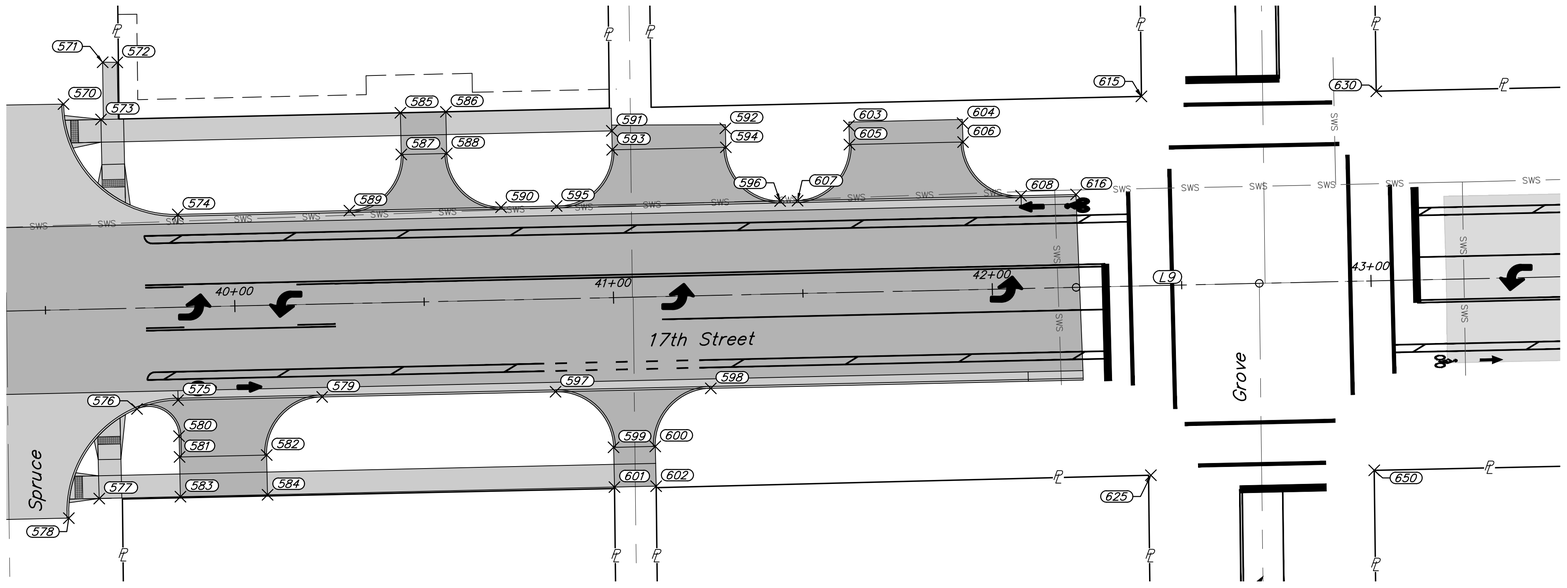

20 0 20

Scale: 1" = 20' Horizontal

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23419
08/05/2025
KANSAS
PROFESSIONAL ENGINEER

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CITY OF WICHITA
17TH STREET

COORDINATE PLAN 5

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

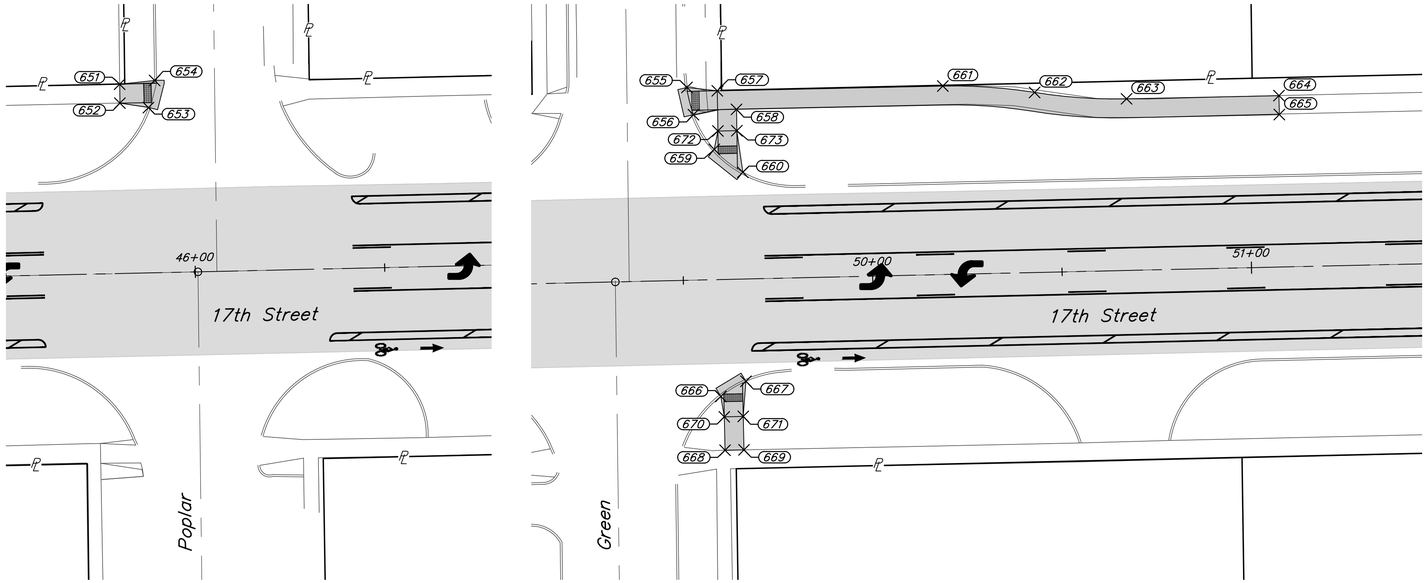
DESIGN: BDC DRAWN: BDC

DATE: August 5, 2025

SHEET 32 OF 148

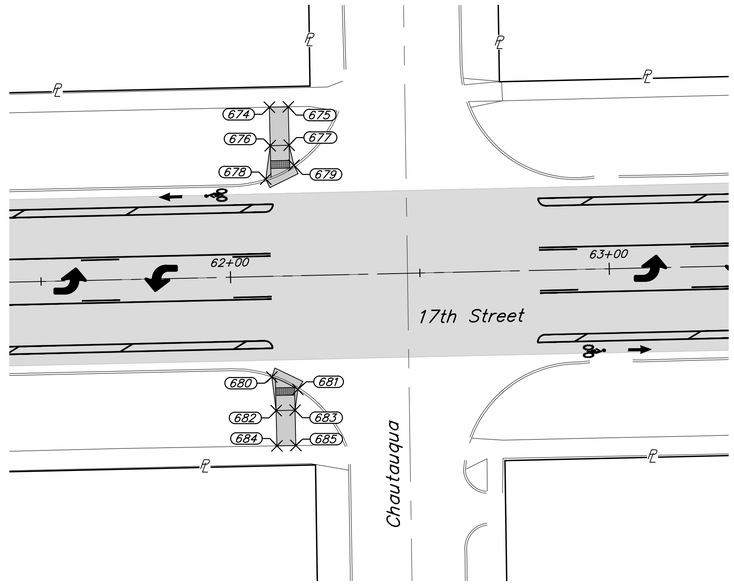
File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\COORDINATE PLAN.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	33	148



20 0 20

Scale: 1" = 20' Horizontal



20 0 20

Scale: 1" = 20' Horizontal

BRENT CHESNUTT LICENSED 23419 08/05/2025 KANSAS PROFESSIONAL ENGINEER

BAUGHMAN COMPANY

315 Ellis St.
Wichita, KS 67211
316-262-7271
BaughmanCo.com

CITY OF WICHITA
17TH STREET

COORDINATE PLAN 6

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

DESIGN: BDC DRAWN: BDC

DATE: August 5, 2025

SHEET 33 OF 148

File: E:\Projects\Wichita 17th St. I-135 to Hillside (23-04-E484)\Engineering\DWG\COORDINATE PLAN.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	34	148

COORDINATE POINT TABLE			
Point #	Northing	Easting	Raw Description
100	1696363.9826	1653245.7286	SWS
101	1696349.1119	1653303.4867	SWS
102	1696365.3669	1653389.7980	SWS
103	1696350.6770	1653390.0337	SWS
104	1696317.3741	1653390.5683	SWS
105	1696367.2181	1653505.1339	SWS
106	1696352.6015	1653505.3691	SWS
107	1696321.2242	1653505.8527	SWS
108	1696369.6378	1653655.8580	SWS
109	1696355.0702	1653656.0918	SWS
110	1696323.6438	1653656.5962	SWS
111	1696372.6096	1653841.0351	SWS
112	1696358.1629	1653844.9127	SWS
113	1696326.6151	1653841.7660	SWS
114	1696379.7387	1654160.5770	SWS
115	1696362.8305	1654160.8484	SWS
116	1696331.7369	1654161.3473	SWS
117	1696382.9598	1654361.2258	SWS
118	1696352.7734	1654361.7103	SWS
119	1696334.9665	1654361.9965	SWS
120	1696419.8086	1654402.8538	SWS
121	1696420.1786	1654432.7400	SWS
122	1696385.0843	1654474.0058	SWS
123	1696367.9546	1654474.3671	SWS
124	1696337.0941	1654475.0366	SWS
125	1696387.6781	1654593.6377	SWS
126	1696370.4549	1654586.9119	SWS
127	1696339.5356	1654587.5821	SWS
128	1696389.8988	1654695.1595	SWS
129	1696372.7403	1654688.1961	SWS
130	1696341.7486	1654688.8805	SWS
131	1696395.8354	1654963.9915	SWS
132	1696378.8213	1654957.1174	SWS
133	1696347.6869	1654957.7923	SWS
134	1696398.0725	1655065.5736	SWS
135	1696381.0805	1655058.6223	SWS
136	1696349.9226	1655059.3103	SWS
137	1696403.9898	1655333.5354	SWS
138	1696387.0675	1655326.8125	SWS
139	1696355.8441	1655327.4624	SWS
140	1696406.2210	1655434.8479	SWS
141	1696389.0722	1655428.1266	SWS
142	1696358.0761	1655428.8111	SWS
143	1696411.9052	1655692.2449	SWS
144	1696394.3053	1655692.0905	SWS
145	1696363.9047	1655692.7495	SWS
146	1696414.1427	1655793.5585	SWS
147	1696396.6251	1655793.5740	SWS
148	1696366.1462	1655794.2490	SWS
149	1696414.1717	1656020.6807	SWS

COORDINATE POINT TABLE			
Point #	Northing	Easting	Raw Description
150	1696401.9278	1656019.6157	SWS
151	1696371.1526	1656020.2972	SWS
152	1696416.5052	1656126.0443	SWS
153	1696373.4935	1656125.9924	SWS
154	1696423.8290	1656456.7310	SWS
155	1696380.8263	1656457.0876	SWS
156	1696428.9113	1656686.2084	SWS
157	1696385.9075	1656686.5144	SWS

COORDINATE POINT TABLE			
Point #	Northing	Easting	Raw Description
200	1696362.8804	1653107.0427	BC
201	1696338.6681	1653107.3708	CL
202	1696314.7566	1653107.6949	BC
203	1696304.8230	1653123.4592	BC
204	1696305.4379	1653135.4682	BC
205	1696363.7357	1653138.9507	BC
206	1696315.0071	1653149.8771	BC
207	1696364.0076	1653149.0906	BC
208	1696369.5834	1653174.3237	SW
209	1696391.1886	1653226.4369	SW
210	1696314.9794	1653195.0680	BC
211	1696309.1074	1653172.2564	SW
212	1696303.0567	1653172.7312	SW
213	1696300.4524	1653208.6868	SW
214	1696300.6440	1653220.6219	SW
215	1696314.9553	1653234.0026	BC
216	1696372.7975	1653231.3691	SW
217	1696363.9335	1653269.3114	BC
218	1696370.1825	1653284.7776	SW
219	1696377.4267	1653303.4771	EP
220	1696377.7254	1653327.4754	EP
221	1696365.7282	1653381.1240	BC
222	1696316.7345	1653381.9104	BC
223	1696366.0064	1653398.4558	BC
224	1696317.0073	1653398.9052	BC
225	1696372.0538	1653401.3591	SW
226	1696303.6319	1653406.7741	SW
227	1696293.7408	1653414.3289	SW
228	1696372.7611	1653414.2736	SW
229	1696392.2675	1653414.5161	SW
230	1696397.2613	1653414.0853	SW
231	1696385.8474	1653426.6407	BC
232	1696386.1026	1653451.6429	BC
233	1696366.1508	1653407.4546	BC
234	1696367.1780	1653471.4475	BC
235	1696373.2735	1653477.3504	SW
236	1696373.3698	1653483.3496	SW
237	1696287.9845	1653428.8748	BC
238	1696288.2980	1653459.5867	BC

COORDINATE POINT TABLE			
Point #	Northing	Easting	Raw Description
239	1696298.4762	1653459.4282	BC
240	1696297.4479	1653470.1559	SW
241	1696297.7150	1653487.5736	EP
242	1696315.7925	1653469.3791	BC
243	1696312.3688	1653475.3368	BC
244	1696318.2867	1653478.6127	BC
245	1696318.6336	1653500.2299	BC
246	1696304.9269	1653487.4578	SW
247	1696390.8005	1653519.7655	SW
248	1696390.8920	1653537.7664	SW
249	1696374.0549	1653526.0351	SW
250	1696374.1512	1653532.0343	SW
251	1696318.8161	1653511.5959	BC
252	1696305.5265	1653524.8114	SW
253	1696305.7511	1653538.8096	SW
254	1696319.4577	1653551.5715	BC
255	1696319.6429	1653563.1112	BC
256	1696306.3533	1653576.3267	SW
257	1696306.5459	1653588.3251	SW
258	1696320.2525	1653601.0870	BC
259	1696320.4350	1653612.4589	BC
260	1696307.1454	1653625.6744	SW
261	1696307.3380	1653637.6728	SW
262	1696321.0445	1653650.4347	BC
263	1696321.2436	1653662.8380	BC
264	1696307.9540	1653676.0535	SW
265	1696308.1466	1653688.0517	SW
266	1696321.8532	1653700.8136	BC
267	1696395.9543	1653711.8677	EP
268	1696396.3627	1653741.8651	EP
269	1696377.0425	1653712.1713	SW
270	1696377.5240	1653742.1674	SW
271	1696322.0345	1653712.1135	BC
272	1696308.7449	1653725.3290	SW
273	1696308.9375	1653737.3275	SW
274	1696322.6441	1653750.0894	BC
275	1696323.2085	1653785.2568	BC
276	1696309.9185	1653798.4472	BC
277	1696300.2190	1653798.5786	EP
278	1696300.6141	1653822.5751	EP
279	1696310.3037	1653822.4437	SW
280	1696324.0107	1653835.2308	BC
281	1696324.2213	1653848.3516	BC
282	1696310.9312	1653861.5419	SW
283	1696301.2577	1653861.6731	EP
284	1696301.6528	1653885.6698	EP
285	1696311.3164	1653885.5388	SW
286	1696325.0229	1653898.2982	BC
287	1696374.0166	1653897.5118	BC
288	1696380.0124	1653897.2029	SW

COORDINATE POINT TABLE			
Point #	Northing	Easting	Raw Description
289	1696381.0722	1653932.5242	SW
290	1696391.7772	1653932.3524	EP
291	1696392.0339	1653952.3509	EP
292	1696381.6721	1653952.5172	SW
293	1696311.5289	1653898.7798	SW
294	1696314.5409	1653999.1661	SW
295	1696303.5843	1653999.0173	SW
296	1696303.6519	1654006.3610	SW
297	1696315.1046	1654006.0174	SW
298	1696320.5382	1653998.9862	SW
299	1696324.7208	1654019.2646	SW
300	1696319.1418	1654021.4723	SW
301	1696329.3242	1654041.6544	BC
302	1696323.3250	1654041.7507	SW
303	1696323.4212	1654047.7499	SW
304	1696304.2274	1654042.0573	SW
305	1696310.3254	1654047.9601	SW
306	1696310.6752	1654069.2056	SW
307	1696304.6760	1654069.3043	SW
308	1696329.5167	1654053.6466	BC
309	1696300.4939	1654083.6163	BC
310	1696378.3185	1654040.9078	BC
311	1696384.3137	1654040.5591	SW
312	1696384.9133	1654077.9177	SW
313	1696393.5194	1654077.7796	EP
314	1696393.7760	1654097.7779	EP
315	1696385.2343	1654097.9150	SW
316	1696300.9923	1654114.6679	BC
317	1696330.9619	1654143.6906	BC
318	1696331.1545	1654155.6891	BC
319	1696360.1761	1654219.1106	BC
320	1696353.1770	1654219.2230	BC
321	1696388.3943	1654263.6364	SW
322	1696388.6836	1654281.6584	SW
323	1696381.8955	1654263.7651	BC
324	1696382.1844	1654281.7627	BC
325	1696360.9543	1654267.6016	BC
326	1696361.1308	1654278.6002	BC
327	1696361.2032	1654283.1024	BC
328	1696353.9553	1654267.7140	BC
329	1696354.1318	1654278.7126	BC
330	1696354.2041	1654283.2147	BC
331	1696332.9018	1654264.5514	BC
332	1696333.1907	1654282.5491	BC
333	1696326.4026	1654264.6477	SW
334	1696326.6914	1654282.6454	SW
335	1696430.9393	1654340.1377	SW
336	1696426.9489	1654337.1250	SW
337	1696402.1185	1654329.0804	SW
338	1696398.1191	1654329.1491	SW

BC – Back of Curb
CL – Centerline
PC – Point of Curb
PI – Point of Intersection
PT – Point of Tangent
RP – Radius Point
SW – Edge of Sidewalk
SWS – Stormwater Struc.
TP – Top of Pavement

BAUGHMAN COMPANY
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CITY OF WICHITA
17TH STREET

COORDINATE TABLE 1

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

DESIGN: BDC DRAWN: BDC

DATE: August 5, 2025

SHEET 34 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\COORDINATE PLAN.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	35	148

COORDINATE POINT TABLE

Point #	Northing	Easting	Raw Description
339	1696425.4686	1654402.2549	BC
340	1696413.6921	1654402.4261	BC
341	1696404.2714	1654392.3497	SW
342	1696404.1384	1654386.3512	SW
343	1696403.9104	1654376.0669	SW
344	1696406.9092	1654372.0806	SW
345	1696402.8052	1654369.0463	SW
346	1696398.8586	1654369.1641	SW
347	1696398.0254	1654381.3191	SW
348	1696394.6672	1654368.8150	SW
349	1696390.0082	1654364.1833	SW
350	1696383.5514	1654366.9298	BC
351	1696383.6553	1654373.4044	BC
352	1696334.5569	1654367.6675	BC
353	1696334.6525	1654373.6235	BC
354	1696327.9028	1654358.1150	SW
355	1696322.2032	1654369.8731	SW
356	1696326.1474	1654375.0396	SW
357	1696313.7545	1654387.4284	SW
358	1696314.3844	1654393.4162	SW
359	1696305.4305	1654403.5958	BC
360	1696425.8513	1654433.1633	BC
361	1696414.5179	1654433.3036	BC
362	1696405.4371	1654443.6312	SW
363	1696405.5189	1654448.6306	SW
364	1696385.3559	1654463.4411	BC
365	1696336.3432	1654463.3831	BC
366	1696305.5990	1654434.5289	BC
367	1696315.4910	1654444.4659	SW
368	1696315.6211	1654450.4645	SW
369	1696310.4668	1654442.7899	SW
370	1696310.5401	1654448.7895	SW
371	1696294.3352	1654442.9869	SW
372	1696294.4087	1654448.9861	SW
373	1696337.0138	1654494.3220	BC
374	1696316.9065	1654509.7604	SW
375	1696311.8742	1654509.8705	EP
376	1696312.4021	1654533.8644	EP
377	1696317.4266	1654533.7565	SW
378	1696338.1841	1654548.3090	BC
379	1696419.1677	1654628.1382	BC
380	1696409.2157	1654618.2097	SW
381	1696409.0776	1654613.2116	SW
382	1696388.3008	1654599.2925	BC
383	1696339.1585	1654593.2587	BC
384	1696319.0150	1654607.0280	SW
385	1696319.1450	1654613.0267	SW
386	1696310.3797	1654623.3893	BC
387	1696419.4078	1654659.3342	BC
388	1696410.4120	1654669.6270	SW

COORDINATE POINT TABLE

Point #	Northing	Easting	Raw Description
389	1696410.4922	1654674.6264	SW
390	1696390.2759	1654689.4828	BC
391	1696341.1259	1654683.2259	BC
392	1696320.3843	1654669.3554	SW
393	1696320.2743	1654664.3565	SW
394	1696315.3842	1654654.6162	BC
395	1696310.7273	1654652.2260	EP
396	1696418.6468	1654822.3105	EP
397	1696418.9430	1654836.3074	EP
398	1696413.7737	1654822.4180	SW
399	1696414.0817	1654836.4146	SW
400	1696392.8882	1654807.8752	BC
401	1696393.8588	1654851.8645	BC
402	1696343.7362	1654801.5116	BC
403	1696344.7069	1654845.5009	BC
404	1696323.6318	1654816.9585	SW
405	1696323.9398	1654830.9551	SW
406	1696322.0389	1654858.2140	SW
407	1696320.0864	1654883.1262	SW
408	1696427.0821	1654998.4772	BC
409	1696417.2443	1654980.1622	SW
410	1696417.3763	1654986.1609	SW
411	1696396.4581	1654969.6461	BC
412	1696347.3098	1654963.4690	BC
413	1696322.3403	1654985.7250	SW
414	1696318.1522	1654993.6179	BC
415	1696427.4704	1655029.7499	BC
416	1696418.5621	1655040.0555	SW
417	1696418.6705	1655045.0551	SW
418	1696416.2100	1655069.5339	SW
419	1696413.7606	1655094.5939	SW
420	1696398.4496	1655059.8969	BC
421	1696349.2999	1655053.6557	BC
422	1696323.3735	1655032.5213	SW
423	1696323.4833	1655037.5202	SW
424	1696318.5314	1655024.8160	BC
425	1696426.1562	1655157.9029	EP
426	1696426.7601	1655177.8945	EP
427	1696426.8609	1655191.5307	EP
428	1696427.1688	1655205.5273	EP
429	1696415.1588	1655158.1456	SW
430	1696415.5623	1655178.1416	SW
431	1696415.8987	1655191.7726	SW
432	1696416.1368	1655205.7707	SW
433	1696400.2937	1655143.4700	BC
434	1696403.4970	1655184.6920	EP
435	1696402.0064	1655221.0869	BC
436	1696351.8519	1655169.3058	BC
437	1696352.9101	1655217.2631	BC
438	1696338.6193	1655184.6363	BC

COORDINATE POINT TABLE

Point #	Northing	Easting	Raw Description
439	1696339.1315	1655202.5995	BC
440	1696326.7273	1655184.9617	SW
441	1696327.1226	1655202.9280	SW
442	1696418.5982	1655314.4694	SW
443	1696422.7539	1655331.3624	SW
444	1696426.2861	1655345.7192	SW
445	1696426.4393	1655352.6629	SW
446	1696435.3037	1655368.0255	BC
447	1696404.6125	1655339.1901	BC
448	1696355.4670	1655333.1378	BC
449	1696330.4035	1655352.9151	SW
450	1696330.2887	1655346.9512	SW
451	1696325.7384	1655363.2876	BC
452	1696444.3347	1655348.4774	SW
453	1696444.3629	1655352.4445	SW
454	1696454.1070	1655418.3121	SW
455	1696454.0082	1655414.3082	SW
456	1696435.6837	1655399.0232	BC
457	1696427.8919	1655418.6414	SW
458	1696406.5981	1655429.1712	BC
459	1696357.4534	1655423.1565	BC
460	1696337.9177	1655420.8052	SW
461	1696337.7857	1655414.8063	SW
462	1696331.5098	1655402.0138	SW
463	1696326.1088	1655394.3340	BC
464	1696434.9827	1655559.5975	EP
465	1696435.2467	1655571.5946	EP
466	1696430.9950	1655559.6855	SW
467	1696431.2590	1655571.6826	SW
468	1696409.1461	1655545.1640	BC
469	1696410.0842	1655587.1535	BC
470	1696359.9978	1655538.4614	BC
471	1696361.1008	1655588.4490	BC
472	1696345.3323	1655553.7886	BC
473	1696345.7736	1655573.7836	BC
474	1696334.8472	1655554.0200	SW
475	1696335.2871	1655574.0150	SW
476	1696448.3595	1655712.4612	SW
477	1696448.3036	1655716.4540	SW
478	1696434.4439	1655716.4420	SW
479	1696434.3128	1655710.4772	SW
480	1696443.0166	1655726.7367	BC
481	1696412.5279	1655697.8995	BC
482	1696363.5276	1655698.4262	BC
483	1696338.3717	1655714.2137	SW
484	1696338.5030	1655720.1768	SW
485	1696334.2738	1655728.5760	BC
486	1696450.5966	1655768.4577	SW
487	1696450.6736	1655772.8994	SW
488	1696436.1966	1655773.1675	SW

COORDINATE POINT TABLE

Point #	Northing	Easting	Raw Description
489	1696436.7111	1655796.3960	SW
490	1696443.5480	1655757.7322	BC
491	1696414.5171	1655787.8818	BC
492	1696365.5209	1655788.5945	BC
493	1696337.8141	1655781.6538	SW
494	1696334.8145	1655777.4860	SW
495	1696325.6281	1655774.0498	SW
496	1696325.6026	1655770.0671	SW
497	1696334.6417	1655759.7564	BC
498	1696339.6034	1655770.0273	SW
499	1696367.7390	1655888.7469	BC
500	1696368.6567	1655930.1856	BC
501	1696355.4426	1655903.7622	BC
502	1696355.8471	1655915.7539	BC
503	1696342.5713	1655904.0319	SW
504	1696342.8370	1655916.0296	SW
505	1696339.9613	1655899.0931	EP
506	1696441.8121	1656049.3003	SW
507	1696450.8621	1656058.6735	BC
508	1696419.8760	1656029.8480	BC
509	1696370.8668	1656029.9730	BC
510	1696345.8616	1656052.2497	SW
511	1696342.0918	1656060.1174	BC
512	1696343.1896	1656044.8617	EP
513	1696451.3936	1656090.1040	BC
514	1696442.9318	1656099.8575	SW
515	1696421.8783	1656120.2572	BC
516	1696372.8681	1656120.3379	BC
517	1696346.8935	1656099.1902	SW
518	1696342.4627	1656091.4864	BC
519	1696375.6248	1656245.0449	BC
520	1696376.7319	1656295.0327	BC
521	1696360.9658	1656260.3733	BC
522	1696361.4087	1656280.3684	BC
523	1696350.4684	1656260.6057	SW
524	1696350.9112	1656280.6008	SW
525	1696449.0077	1656375.4352	SW
526	1696457.7917	1656389.8386	BC
527	1696427.2097	1656360.9809	BC
528	1696378.1984	1656361.0135	BC
529	1696353.0400	1656376.7177	SW
530	1696348.0570	1656376.7630	SW
531	1696348.0929	1656380.7193	SW
532	1696348.7119	1656391.1667	BC
533	1696458.1416	1656420.7960	BC
534	1696450.2556	1656430.5432	SW
535	1696429.2021	1656450.9440	BC
536	1696380.2009	1656451.4331	BC
537	1696354.2234	1656430.2820	SW
538	1696349.0629	1656422.5883	BC

BC – Back of Curb
CL – Centerline
PC – Point of Curb
PI – Point of Intersection
PT – Point of Tangent
RP – Radius Point
SW – Edge of Sidewalk
SWS – Stormwater Struc.
TP – Top of Pavement

BAUGHMAN COMPANY
315 Ellis St.
Wichita, KS 67211
316-262-7271
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CITY OF WICHITA
17TH STREET

COORDINATE TABLE 2

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

DESIGN: BDC DRAWN: BDC

DATE: August 5, 2025

SHEET 35 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\COORDINATE PLAN.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	36	148

COORDINATE POINT TABLE			
Point #	Northing	Easting	Raw Description
539	1696455.0387	1656465.8602	EP
540	1696455.4816	1656485.8553	EP
541	1696451.0397	1656465.9488	SW
542	1696451.4826	1656485.9439	SW
543	1696429.4457	1656461.9413	BC
544	1696430.3200	1656501.4163	BC
545	1696456.8665	1656548.3858	EP
546	1696457.1322	1656560.3828	EP
547	1696452.8674	1656548.4744	SW
548	1696453.1331	1656560.4714	SW
549	1696431.0406	1656533.9541	BC
550	1696431.9705	1656575.9438	BC
551	1696448.6879	1656585.5760	SW
552	1696444.2427	1656610.6806	SW
553	1696382.4236	1656551.7916	BC
554	1696383.6413	1656606.7745	BC
555	1696367.7594	1656567.1201	BC
556	1696368.3129	1656592.1103	BC
557	1696357.2620	1656567.3526	SW
558	1696357.8155	1656592.3428	SW
559	1696445.1086	1656649.7791	SW
560	1696448.3365	1656666.3784	SW
561	1696457.1362	1656689.6170	SW
562	1696460.3620	1656706.2163	SW
563	1696470.4503	1656706.1490	SW
564	1696470.4469	1656709.9707	SW
565	1696465.1658	1656720.5855	BC
566	1696434.5354	1656691.7519	BC
567	1696385.5331	1656692.1911	BC
568	1696360.3662	1656707.5137	SW
569	1696355.7391	1656722.3427	BC
570	1696465.6402	1656751.9754	BC
571	1696476.6969	1656762.2936	SW
572	1696476.6683	1656766.1636	SW
573	1696461.5942	1656761.8577	SW
574	1696436.5369	1656782.1260	BC
575	1696387.5269	1656782.2161	BC
576	1696385.1926	1656771.3512	BC
577	1696361.5594	1656761.3844	SW
578	1696356.3935	1656753.3510	BC
579	1696388.3692	1656820.2482	BC
580	1696378.0047	1656782.4728	BC
581	1696372.5316	1656782.5940	BC
582	1696373.0407	1656805.5840	BC
583	1696362.0342	1656782.8265	SW
584	1696362.5433	1656805.8165	SW
585	1696463.3445	1656840.8858	SW
586	1696463.6102	1656852.8828	SW
587	1696452.3472	1656841.1293	BC
588	1696452.6129	1656853.1263	BC

COORDINATE POINT TABLE			
Point #	Northing	Easting	Raw Description
589	1696437.5404	1656827.4371	BC
590	1696438.4268	1656867.4606	BC
591	1696458.5785	1656896.6889	SW
592	1696459.2427	1656926.6742	SW
593	1696453.5802	1656896.7996	BC
594	1696454.2443	1656926.7849	BC
595	1696438.7516	1656882.1244	BC
596	1696440.0582	1656941.1192	BC
597	1696389.7334	1656881.8443	BC
598	1696390.6412	1656922.8343	BC
599	1696375.0692	1656897.1728	BC
600	1696375.3128	1656908.1701	BC
601	1696364.5718	1656897.4053	SW
602	1696364.8153	1656908.4026	SW
603	1696459.9656	1656959.3068	SW
604	1696460.6300	1656989.2992	SW
605	1696454.9670	1656959.4175	BC
606	1696455.6312	1656989.4099	BC
607	1696440.1602	1656945.7253	BC
608	1696441.4669	1657004.7273	BC
615	1696467.6769	1657036.5008	BC
616	1696441.7884	1657019.2412	BC
625	1696367.7074	1657038.9945	SW
630	1696469.0327	1657098.4790	SW
650	1696368.9980	1657097.9559	SW
651	1696475.0098	1657377.0677	SW
652	1696470.0146	1657377.1290	SW
653	1696468.8429	1657384.6617	BC
654	1696476.0088	1657386.3017	BC
655	1696484.3378	1657747.9123	BC
656	1696477.1470	1657749.6022	BC
657	1696483.4650	1657755.8971	SW
658	1696478.5459	1657760.9767	SW
659	1696467.9828	1657755.0919	BC
660	1696461.9668	1657762.6497	BC
661	1696484.7109	1657815.4226	SW
662	1696483.0223	1657839.6785	SW
663	1696481.3338	1657863.9344	SW
664	1696482.1936	1657904.1500	SW
665	1696477.1839	1657904.2629	SW
666	1696402.8117	1657756.8281	BC
667	1696406.8033	1657763.4662	BC
668	1696388.5956	1657757.9544	SW
669	1696388.6963	1657762.9534	SW
670	1696397.4208	1657757.7567	SW
671	1696397.5327	1657762.7555	SW
672	1696472.8447	1657756.0675	SW
673	1696472.9249	1657761.0668	SW
674	1696506.2958	1659006.8812	SW
675	1696506.3946	1659011.8803	SW

COORDINATE POINT TABLE			
Point #	Northing	Easting	Raw Description
676	1696496.1348	1659007.1078	SW
677	1696496.2463	1659012.1065	SW
678	1696487.3253	1659005.9282	BC
679	1696490.9715	1659013.3673	BC
680	1696435.0896	1659007.5410	BC
681	1696431.8112	1659014.3910	BC
682	1696426.2226	1659008.6736	SW
683	1696426.3346	1659013.6723	SW
684	1696416.9168	1659008.8820	SW
685	1696416.9966	1659013.8815	SW

17th Centerline Alignment					
Name	Begin Station	End Station	Begin Coordinates	End Coordinates	Curve Info
L1	0+00.00	3+51.53	N: 1696333.8657 E: 1652797.9959	N: 1696339.5073 E: 1653149.4838	
L2	3+51.53	4+71.55	N: 1696339.5073 E: 1653149.4838	N: 1696339.4334 E: 1653269.5005	
L3	4+71.55	11+00.04	N: 1696339.4334 E: 1653269.5005	N: 1696349.5198 E: 1653897.9050	
L4	11+00.04	12+43.46	N: 1696349.5198 E: 1653897.9050	N: 1696353.8210 E: 1654041.2612	
L5	12+43.46	16+20.75	N: 1696353.8210 E: 1654041.2612	N: 1696359.8761 E: 1654418.5066	
L6	16+20.75	18+40.99	N: 1696359.8761 E: 1654418.5066	N: 1696364.6492 E: 1654638.6934	
L7	18+40.99	29+46.11	N: 1696364.6492 E: 1654638.6934	N: 1696389.0293 E: 1655743.5505	
L8	29+46.11	42+22.14	N: 1696389.0293 E: 1655743.5505	N: 1696417.2828 E: 1657019.2618	
L9	42+22.14	42+70.50	N: 1696417.2828 E: 1657019.2618	N: 1696418.3537 E: 1657067.6152	
L10	42+70.50	46+00.70	N: 1696418.3537 E: 1657067.6152	N: 1696425.4915 E: 1657397.7304	
L11	46+00.70	49+32.05	N: 1696425.4915 E: 1657397.7304	N: 1696433.0220 E: 1657728.9948	
L12	49+32.05	69+10.84	N: 1696433.0220 E: 1657728.9948	N: 1696477.3305 E: 1659707.2912	
L13	69+10.84	72+71.90	N: 1696477.3305 E: 1659707.2912	N: 1696485.8750 E: 1660068.2500	
L14	72+71.90	75+90.07	N: 1696485.8750 E: 1660068.2500	N: 1696491.4999 E: 1660386.3750	

BC – Back of Curb
CL – Centerline
PC – Point of Curb
PI – Point of Intersection
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RP – Radius Point
SW – Edge of Sidewalk
SWS – Stormwater Struc.
TP – Top of Pavement

BAUGHMAN COMPANY
315 Ellis St.
Wichita, KS 67211
316-262-7271
BaughmanCo.com

CITY OF WICHITA
17TH STREET

COORDINATE TABLE 3

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

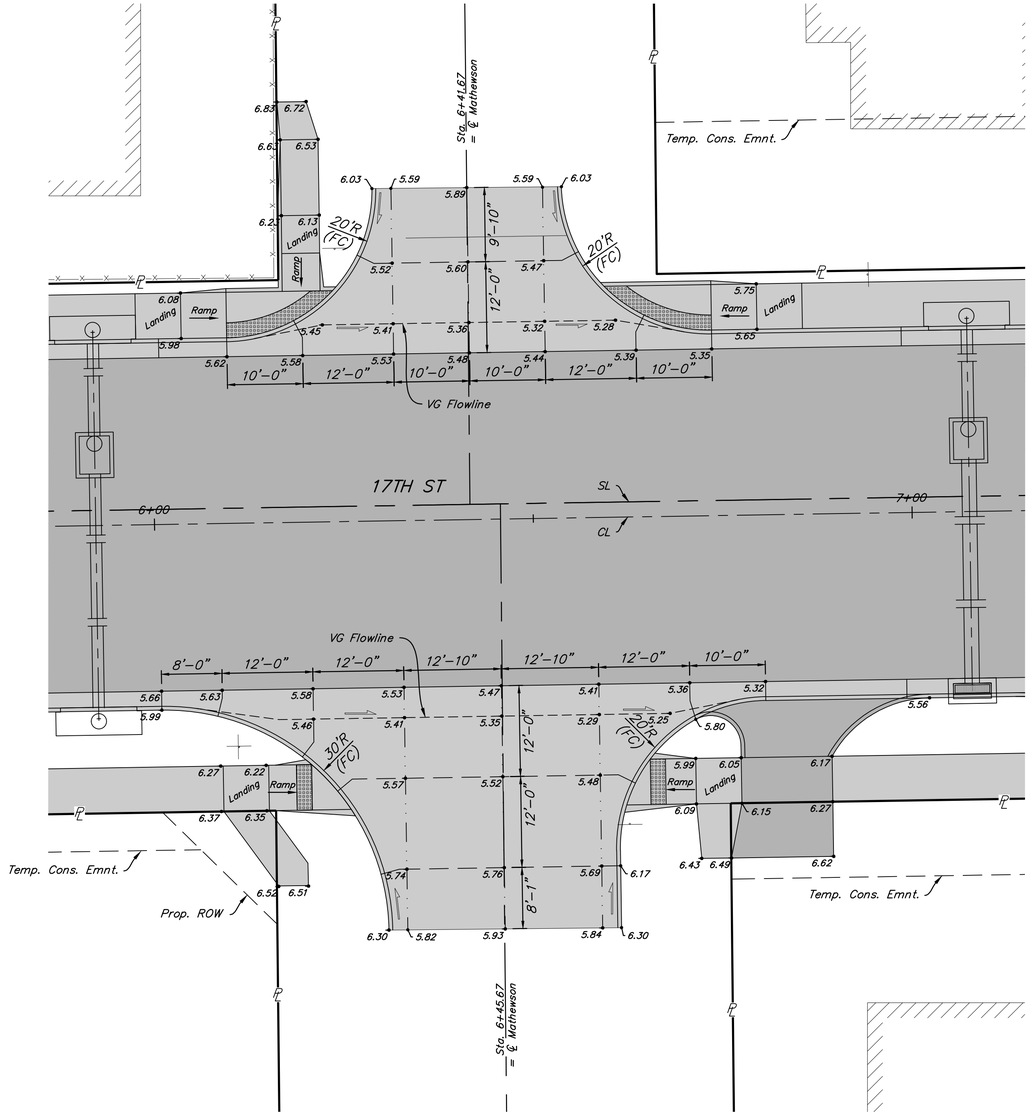
DESIGN: BDC DRAWN: BDC

DATE: August 5, 2025

SHEET 36 OF 148

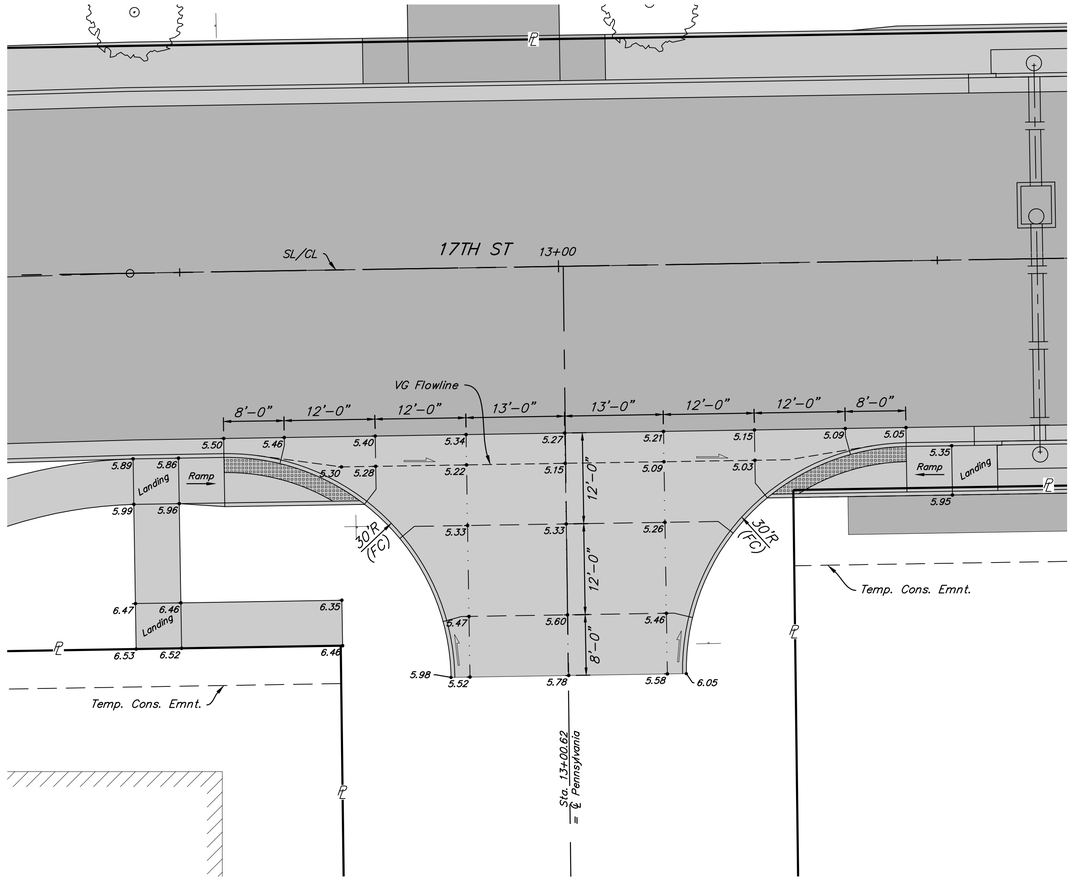
File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\COORDINATE PLAN.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	37	148



INTERSECTION PLAN
17TH & MATHEWSON
NOT TO SCALE

10 0 10
Scale: 1" = 10'



INTERSECTION PLAN
17TH & PENNSYLVANIA
NOT TO SCALE

10 0 10
Scale: 1" = 10'

LEGEND:

- Valley Gutter Contraction Joint
- Valley Gutter Longitudinal Joint
- Valley Gutter Expansion Joint

BRENT CHESNUT
LICENSED
23419
08/05/2025
KANSAS
PROFESSIONAL ENGINEER

BAUGHMAN COMPANY
315 Ellis St.
Wichita, KS 67211
316-262-7271
BaughmanCo.com

CITY OF WICHITA
17TH STREET

INTERSECTION DETAILS 1

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

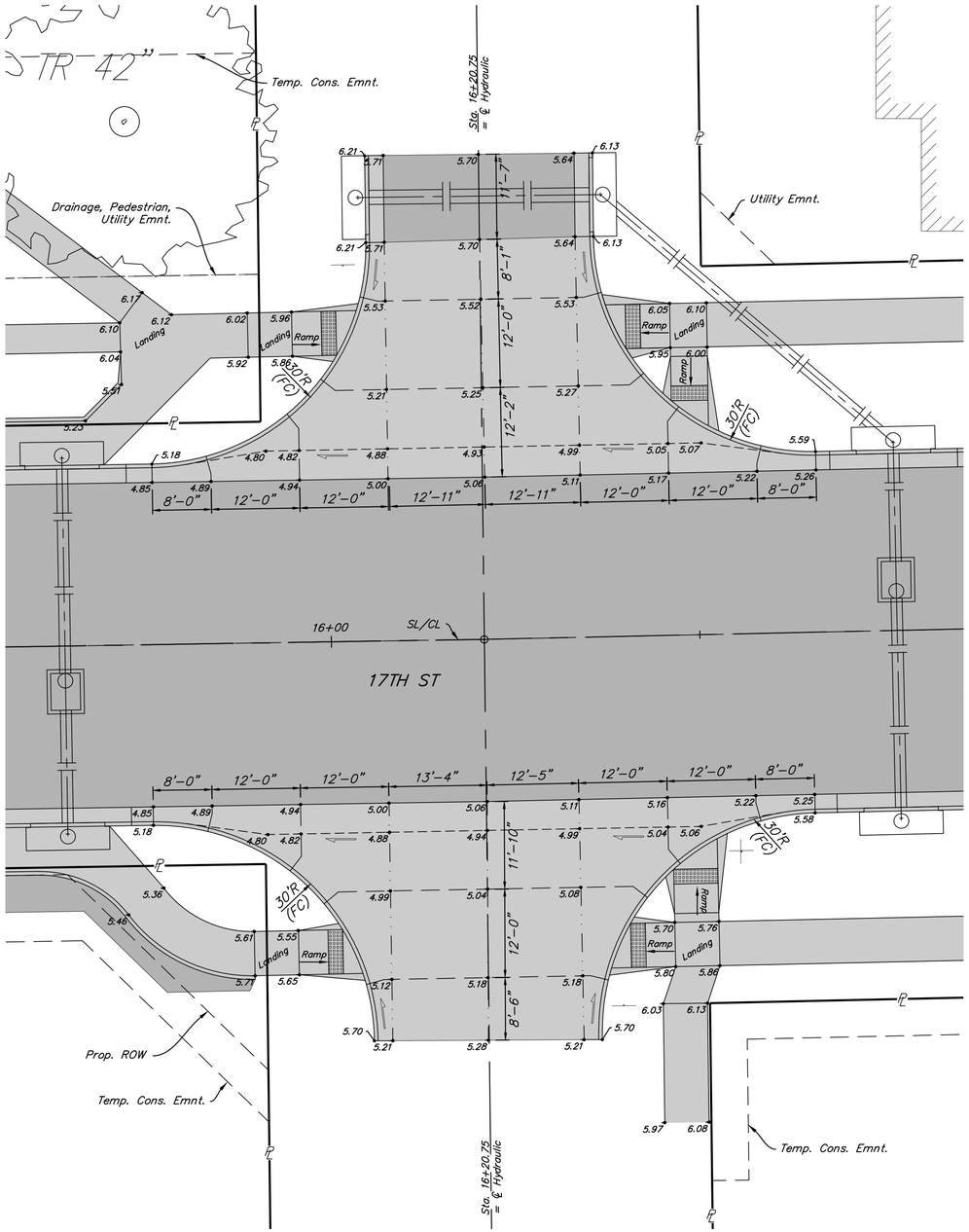
DESIGN: BDC DRAWN: BDC

DATE: August 5, 2025

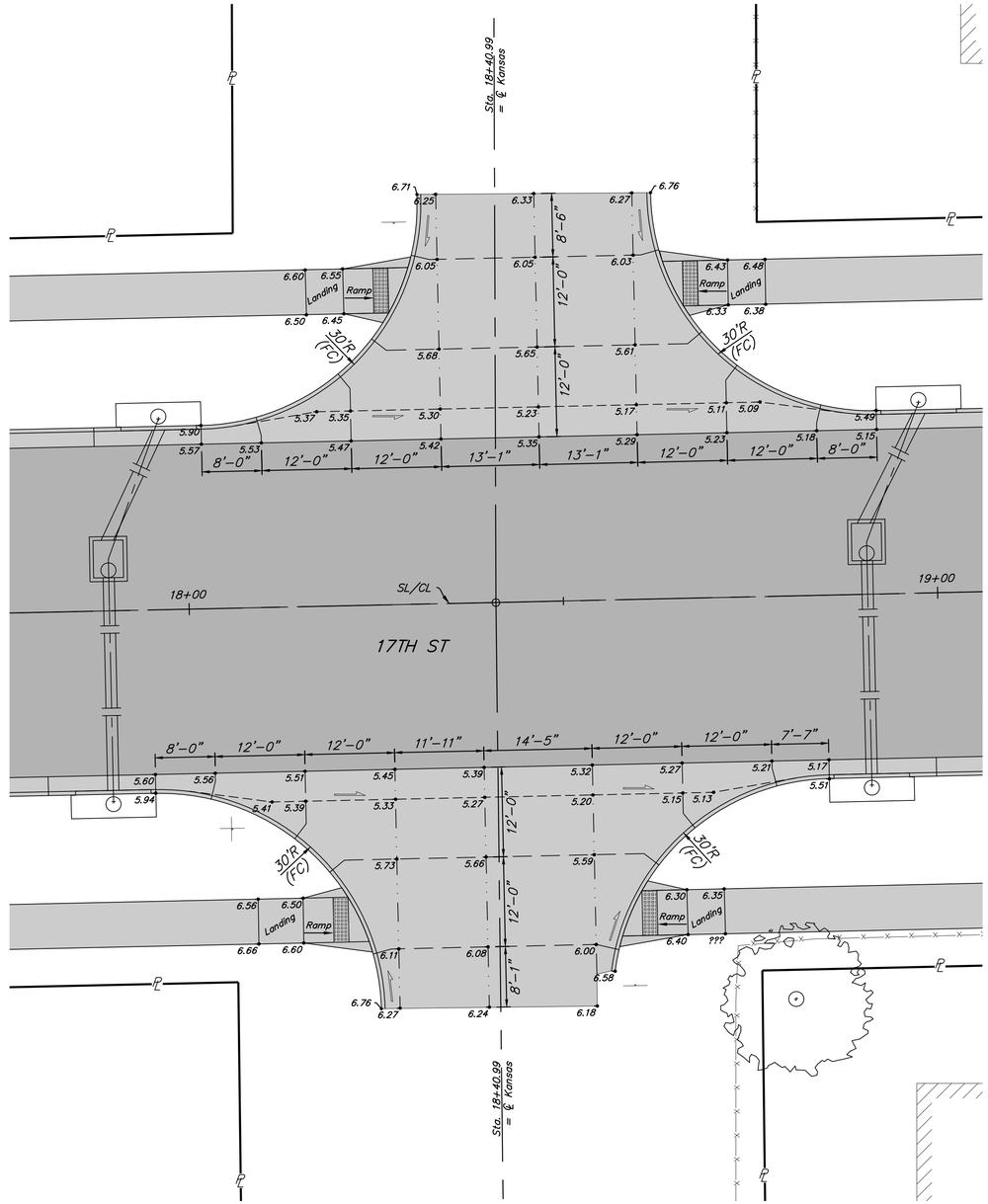
SHEET 37 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\INTERSECTION DETAILS.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	38	148



INTERSECTION PLAN
17TH & HYDRAULIC
NOT TO SCALE



INTERSECTION PLAN
17TH & KANSAS
NOT TO SCALE

LEGEND:

- Valley Gutter Contraction Joint
- Valley Gutter Longitudinal Joint
- Valley Gutter Expansion Joint

10 0 10
Scale: 1" = 10'

BRENT CHESNUT
LICENSED
23419
08/05/2025
KANSAS
PROFESSIONAL ENGINEER

BAUGHMAN COMPANY
315 Ellis St.
Wichita, KS 67211
316-262-7271
BaughmanCo.com

CITY OF WICHITA
17TH STREET

INTERSECTION DETAILS 2

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

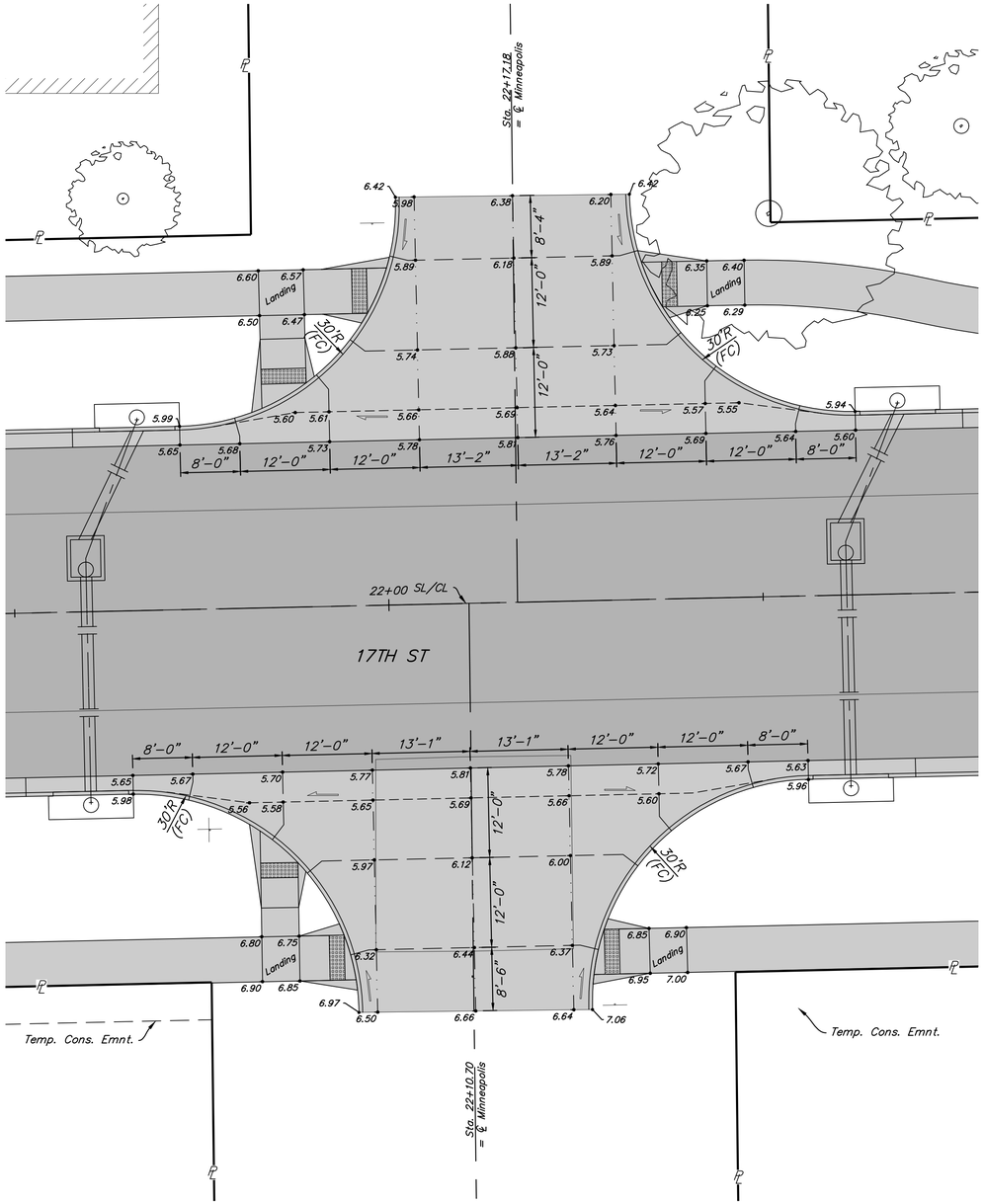
DESIGN: BDC DRAWN: BDC

DATE: August 5, 2025

SHEET 38 OF 148

File: E:\Projects\Wichita 17th St. I-135 to Hillside (23-04-E484)\Engineering\DWG\INTERSECTION DETAILS.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	39	148

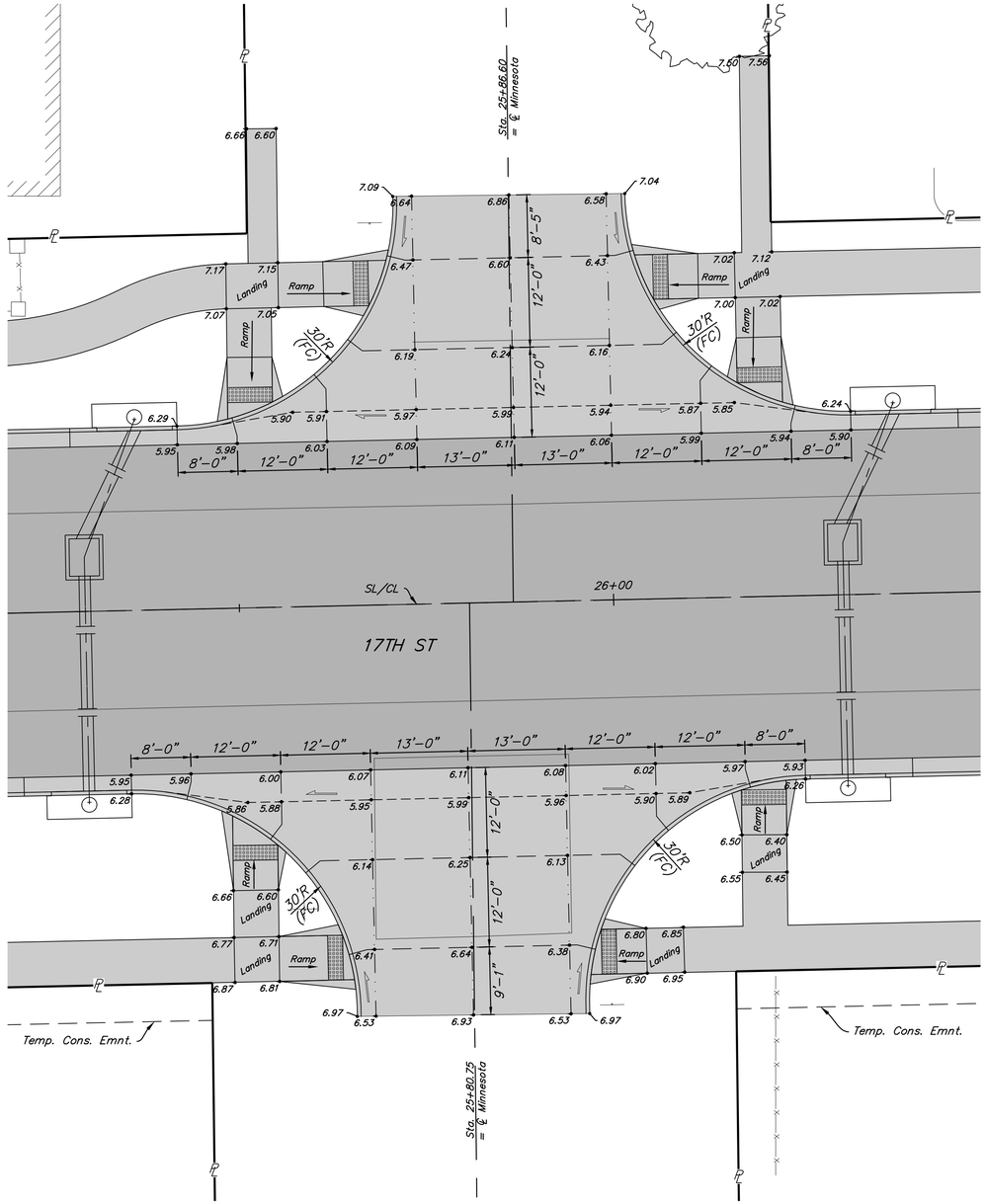


INTERSECTION PLAN
17TH & MINNEAPOLIS
NOT TO SCALE

10 0 10
Scale: 1" = 10'

LEGEND:

- Valley Gutter Contraction Joint
- Valley Gutter Longitudinal Joint
- Valley Gutter Expansion Joint



INTERSECTION PLAN
17TH & MINNESOTA
NOT TO SCALE

10 0 10
Scale: 1" = 10'

BRENT CHESNUTT
KANSAS LICENSED
23419
08/05/2025
KANSAS PROFESSIONAL ENGINEER

BAUGHMAN COMPANY
315 Ellis St.
Wichita, KS 67211
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BaughmanCo.com

CITY OF WICHITA
17TH STREET

INTERSECTION DETAILS 3

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

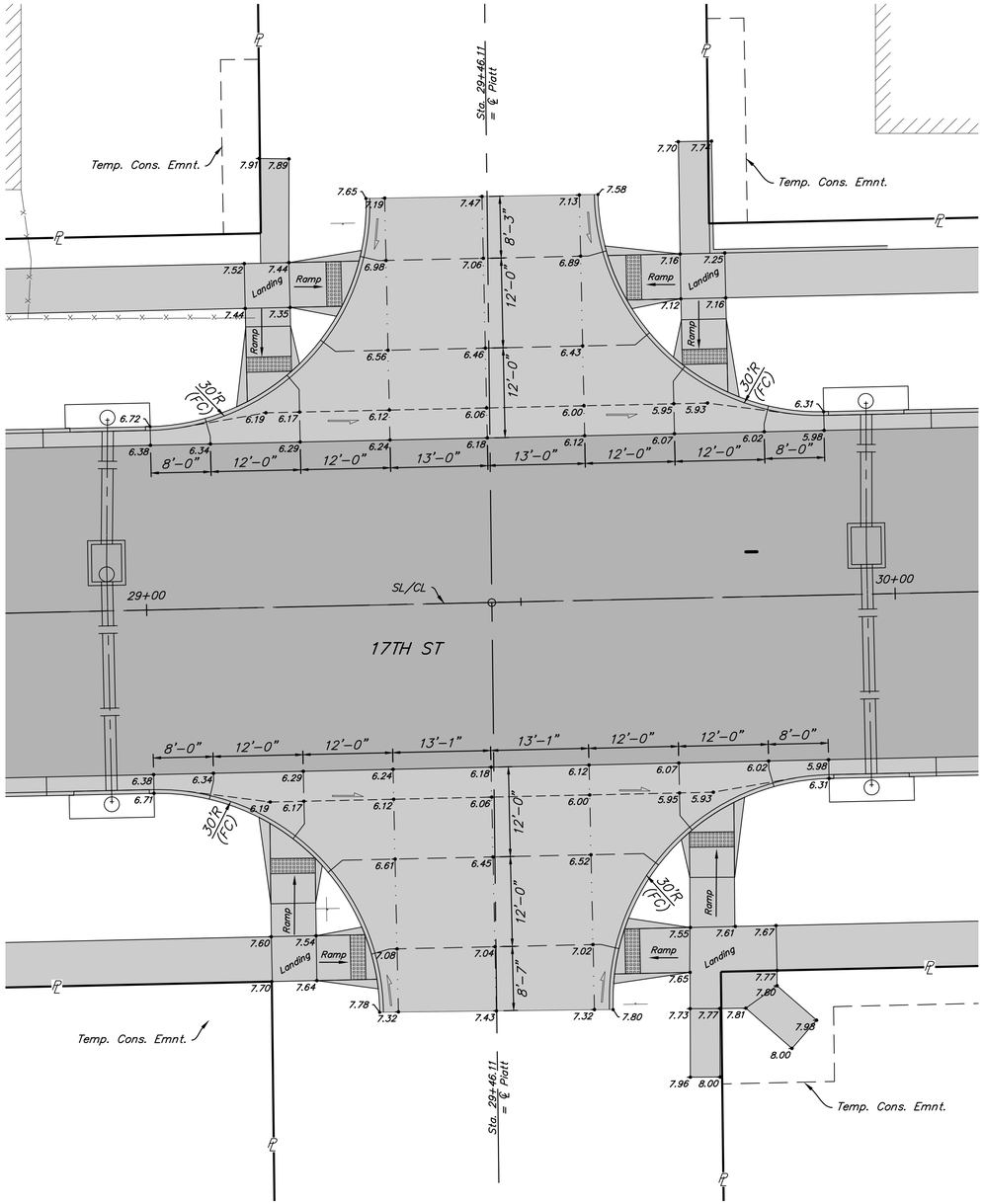
DESIGN: BDC DRAWN: BDC

DATE: August 5, 2025

SHEET 39 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\INTERSECTION DETAILS.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	40	148

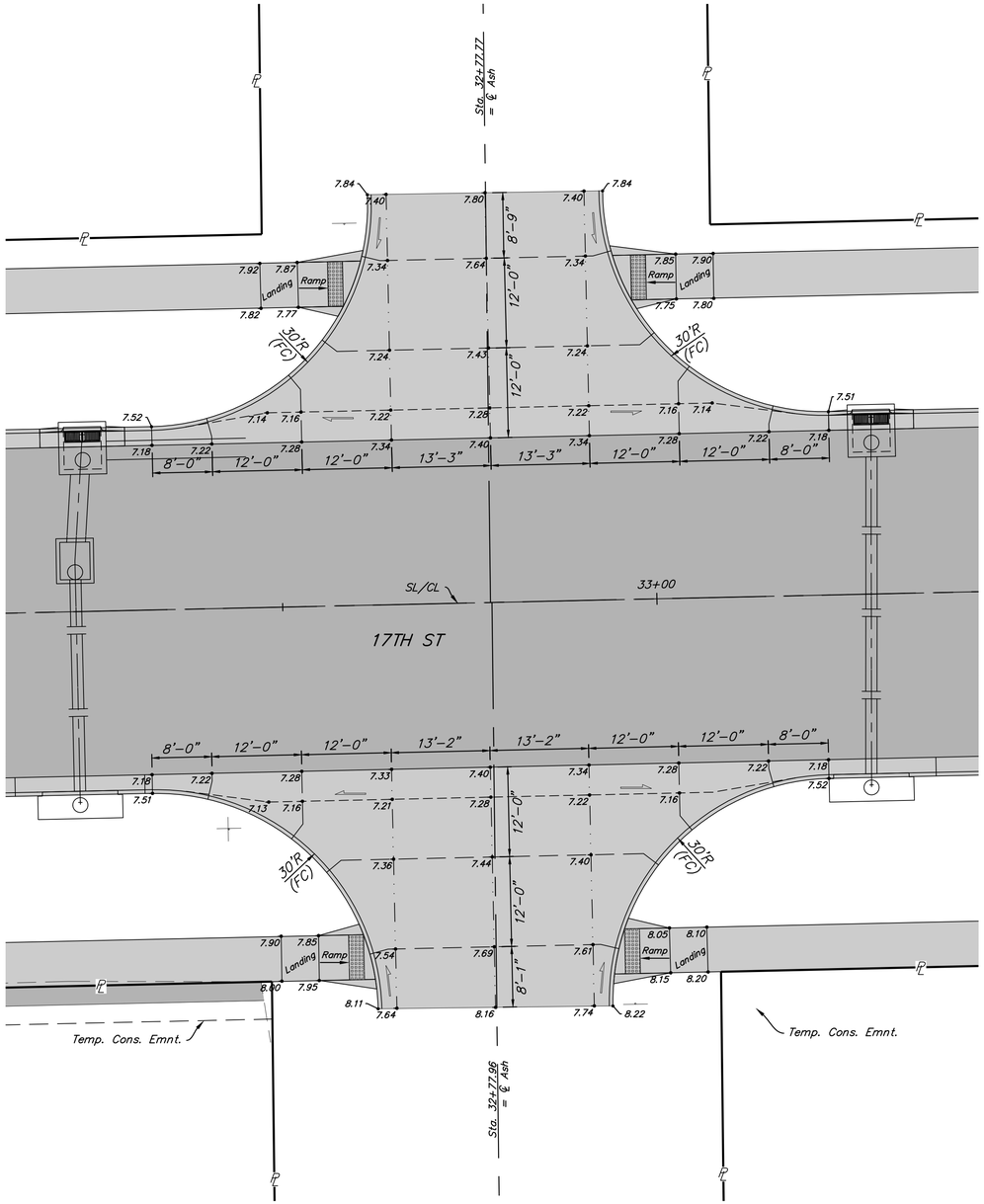


INTERSECTION PLAN
17TH & PIATT
NOT TO SCALE

10 0 10
Scale: 1" = 10'

LEGEND:

- Valley Gutter Contraction Joint
- Valley Gutter Longitudinal Joint
- Valley Gutter Expansion Joint



INTERSECTION PLAN
17TH & ASH
NOT TO SCALE

10 0 10
Scale: 1" = 10'

BRENT CHESNUTT
LICENSED
23419
08/05/2025
KANSAS
PROFESSIONAL ENGINEER

BAUGHMAN COMPANY
315 Ellis St.
Wichita, KS 67211
316-262-7271
BaughmanCo.com

CITY OF WICHITA
17TH STREET

INTERSECTION DETAILS 4

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

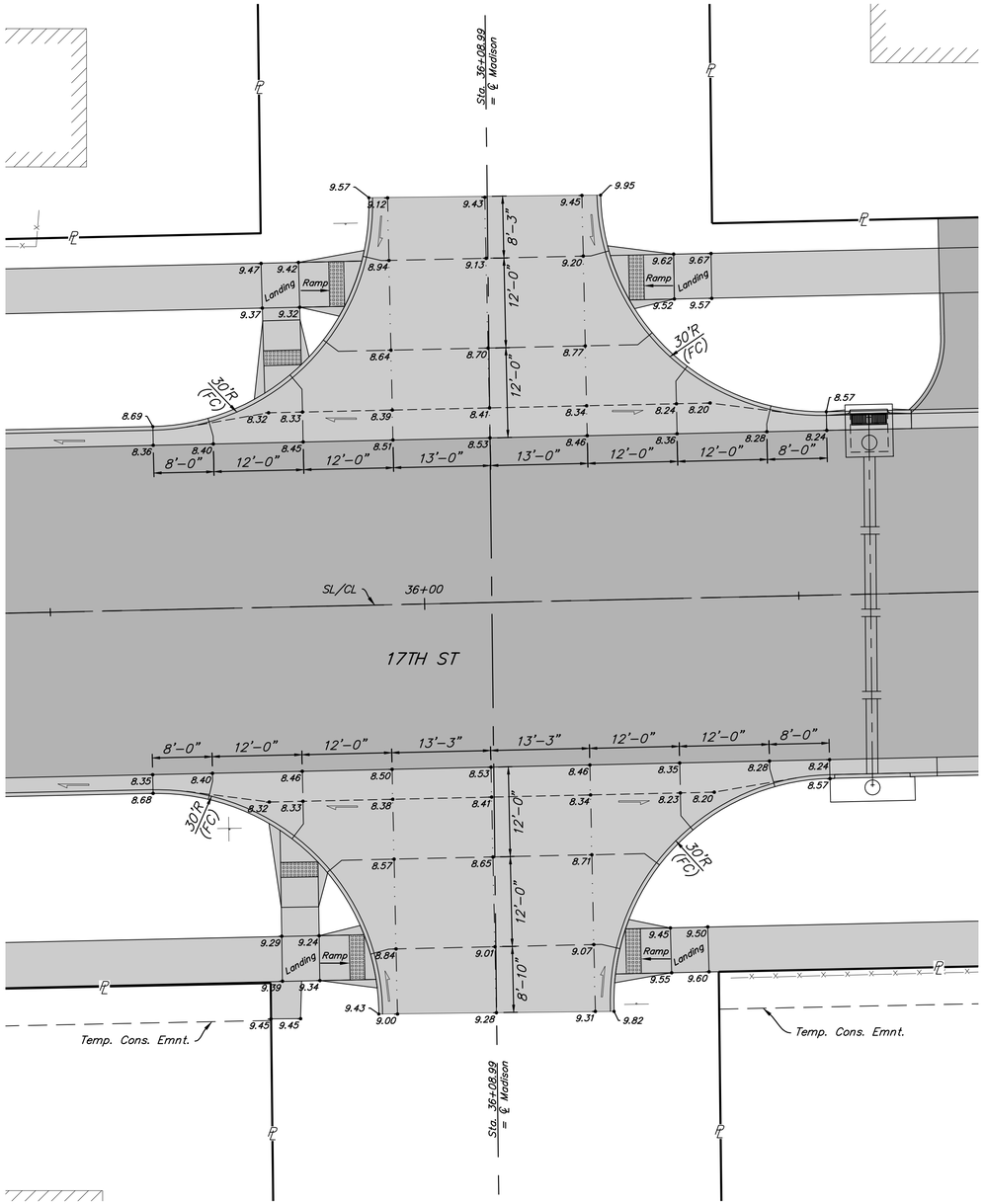
DESIGN: BDC DRAWN: BDC

DATE: August 5, 2025

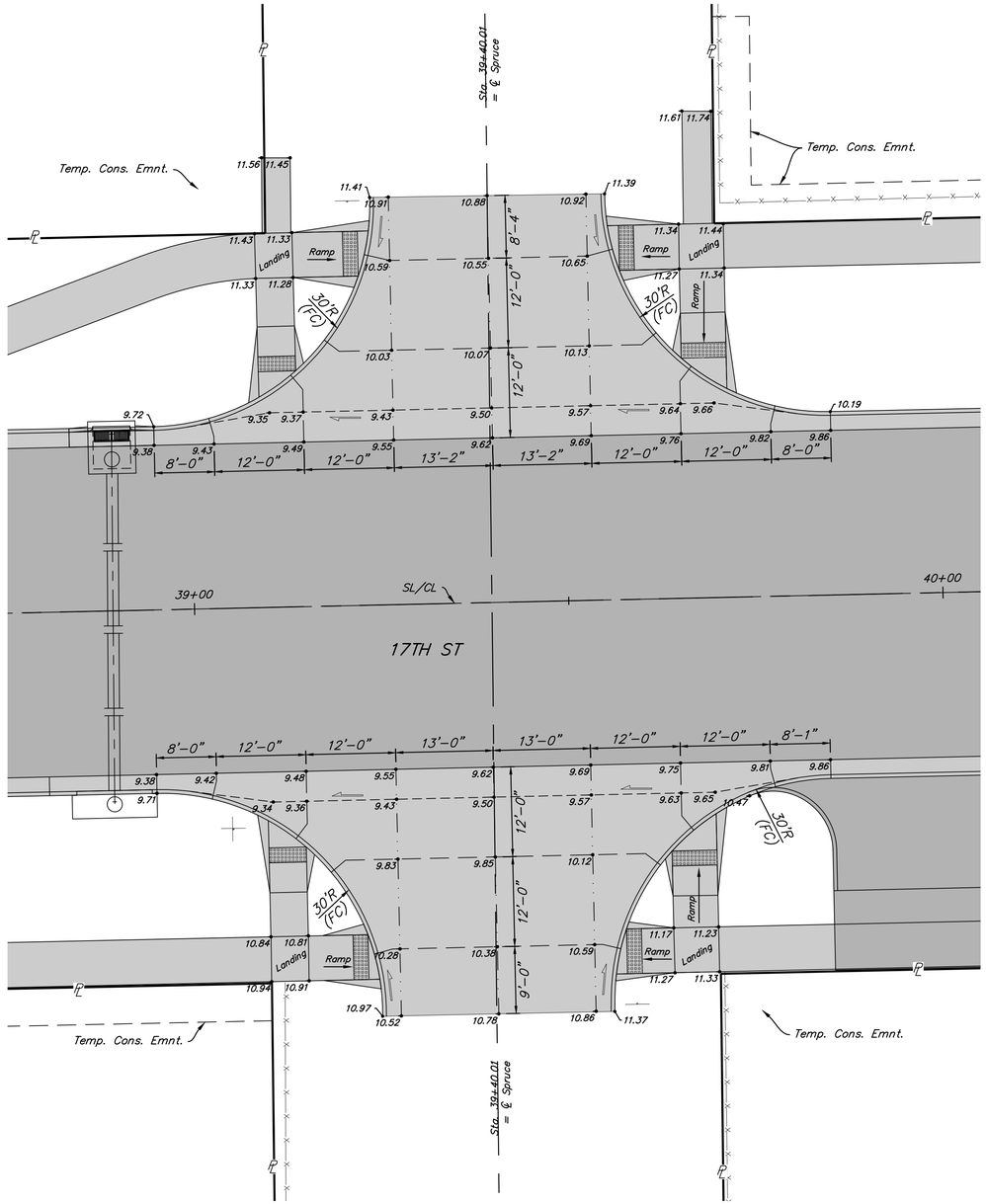
SHEET 40 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\INTERSECTION DETAILS.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	41	148



INTERSECTION PLAN
17TH & MADISON
NOT TO SCALE



INTERSECTION PLAN
17TH & SPRUCE
NOT TO SCALE

10 0 10
Scale: 1" = 10'

LEGEND:

- Valley Gutter Contraction Joint
- Valley Gutter Longitudinal Joint
- Valley Gutter Expansion Joint

10 0 10
Scale: 1" = 10'

BRENT CHESNUT
LICENSED
23419
08/05/2025
KANSAS
PROFESSIONAL ENGINEER

BAUGHMAN COMPANY
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Wichita, KS 67211
316-262-7271
BaughmanCo.com

CITY OF WICHITA
17TH STREET

INTERSECTION DETAILS 5

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

DESIGN: BDC DRAWN: BDC

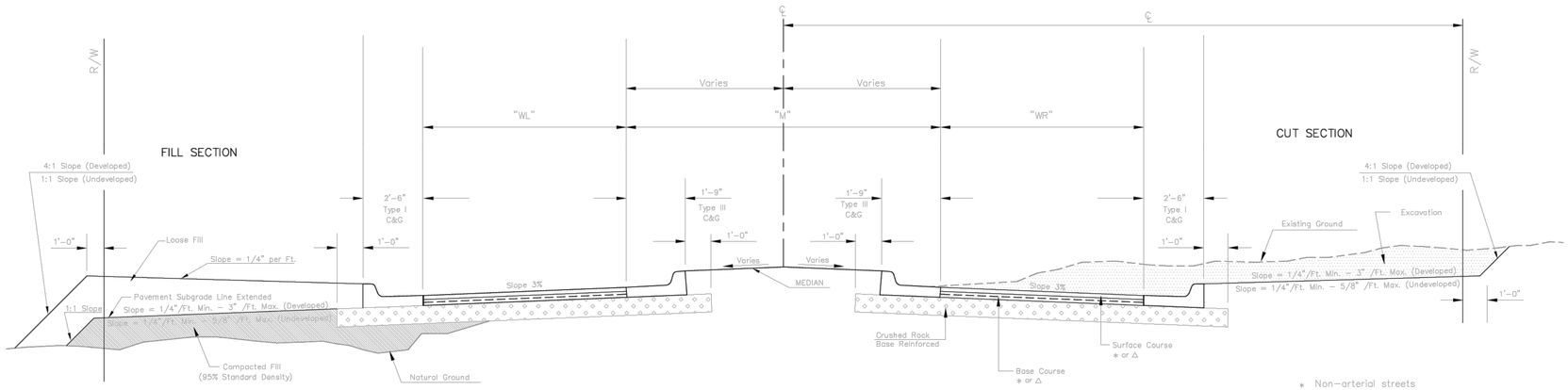
DATE: August 5, 2025

SHEET 41 OF 148

File: E:\Projects\Wichita 17th St. I-135 to Hillside (23-04-E484)\Engineering\DWG\INTERSECTION DETAILS.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	42	148

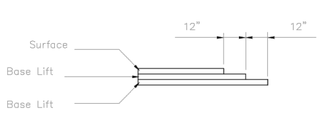
TYPICAL SECTION



* Non–arterial streets
BC–1, SC–1 AND PG 64–22

△ Arterial streets
BM–2 PG 64–22(Base) PG 70–28(Surface)

Base Course thicker than 4" shall be installed in two lifts



TRANSVERSE CONSTRUCTION JOINTS

Transverse construction joints shall be constructed in flexible base pavement at locations where pavement joins existing flexible base pavement as show by the detail. All costs associated with the construction of the transverse joint shall be included in the bid price for Square Yards of pavement.

GENERAL NOTES

Fabric base reinforcement shall be an approved grid. Fabric base reinforcement shall be installed in accordance with manufacturer's recommendations. Crushed rock shall be uniformly graded from 1 – $\frac{1}{2}$" maximum size to not more than 10% passing a No. 200 sieve. Rock quality shall be the same as specified for coarse aggregate for concrete mixes.

Rock base is to be compacted and smoothed with a steel faced roller prior to placement of asphalt. Tack coat will not be applied to rock base.

A tack coat of emulsified asphalt (SC–1H or CSS–1H) shall be applied to an approximate rate of 0.05 gallons per square yard between each lifts of asphaltic material.

Bituminous base and asphaltic concrete wearing surface shall be placed with a laydown machine having automatic controls for line and grade.

Construction joints in each lift shall be staggered a minimum distance of one (1) foot from joints in preceding lifts and placed so that a join will be constructed on the centerline of the top lift.

The asphaltic concrete pavement between the combined curb and gutter shall be paid as square yards of of pavement.

STREET NAME	"WL"	"M"	"WR"	STATION	CENTER LINE	ROW DIMENSION	MEDIAN DESCRIPTON	SLOPE	ROCK THICKNESS	PAVEMENT THICKNESS	COMMENTS
17th Street	22.00'		22.00'	3+09.44 to 12+43.89		70'		3.00%	8"	7"	
17th Street	22.00'		22.00'	12+43.89 to 42+23.47		100'		3.00%	8"	7"	

REVISED: OCTOBER 2015

CITY OF WICHITA
PUBLIC WORKS & UTILITIES ENGINEERING DIVISION

ASPHALT PAVING DETAIL

CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER	OCA NUMBER	DATE

CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

SHEET

PV–147

BAUGHMAN COMPANY
315 Ellis St.
Wichita, KS 67211
316-262-7271
BaughmanCo.com

CITY OF WICHITA
17TH STREET

PV147 ASPHALT PAVING DETAILS

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

DESIGN: BDC DRAWN: TMS

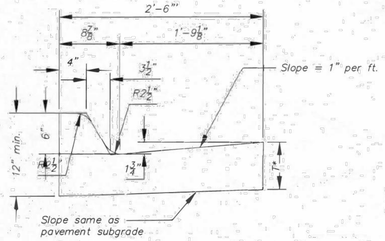
DATE: August 5, 2025

SHEET 42 OF 148

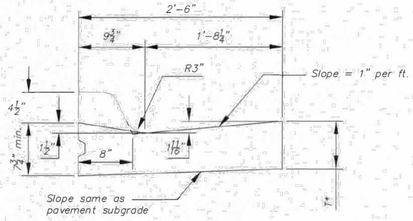
File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\PAVING DETAILS.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	43	148

TYPE 1
(Arterial curb)

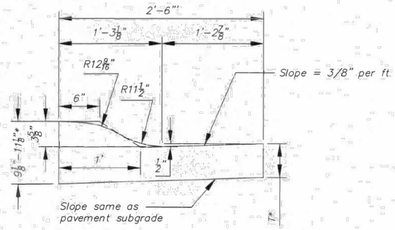


Combined Curb & Gutter (6")

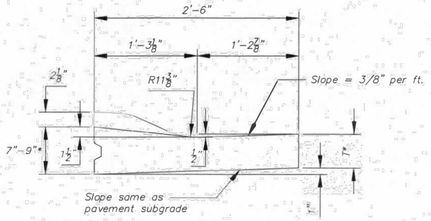


Combined Curb & Gutter (1 1/2")

TYPE 2
(Roll curb)

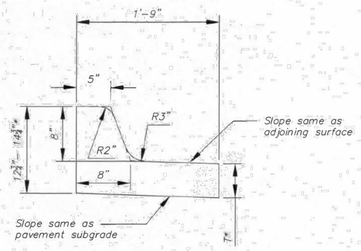


Combined Curb & Gutter (3 5/8")

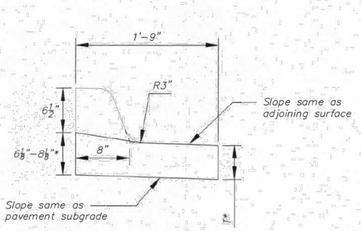


Combined Curb & Gutter (1 1/2")

TYPE 3
(Median curb)

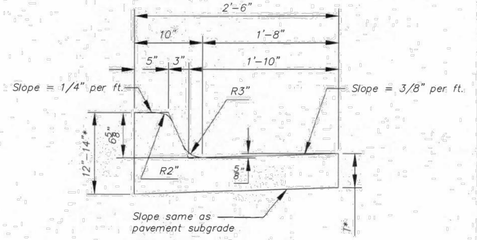


Combined Curb & Gutter (8")

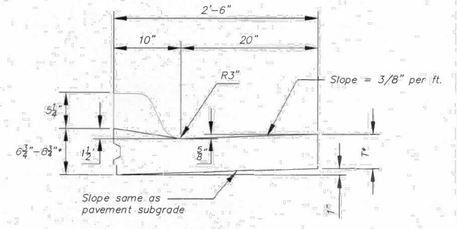


Combined Curb & Gutter (1 1/2")

TYPE 4
(Residential curb)

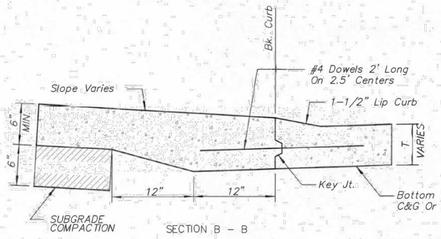


Combined Curb & Gutter (6 5/8")

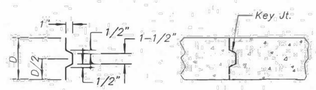


Combined Curb & Gutter (1 1/2")

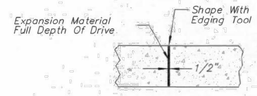
T* = Thickness of curb to adjust with pavement thickness



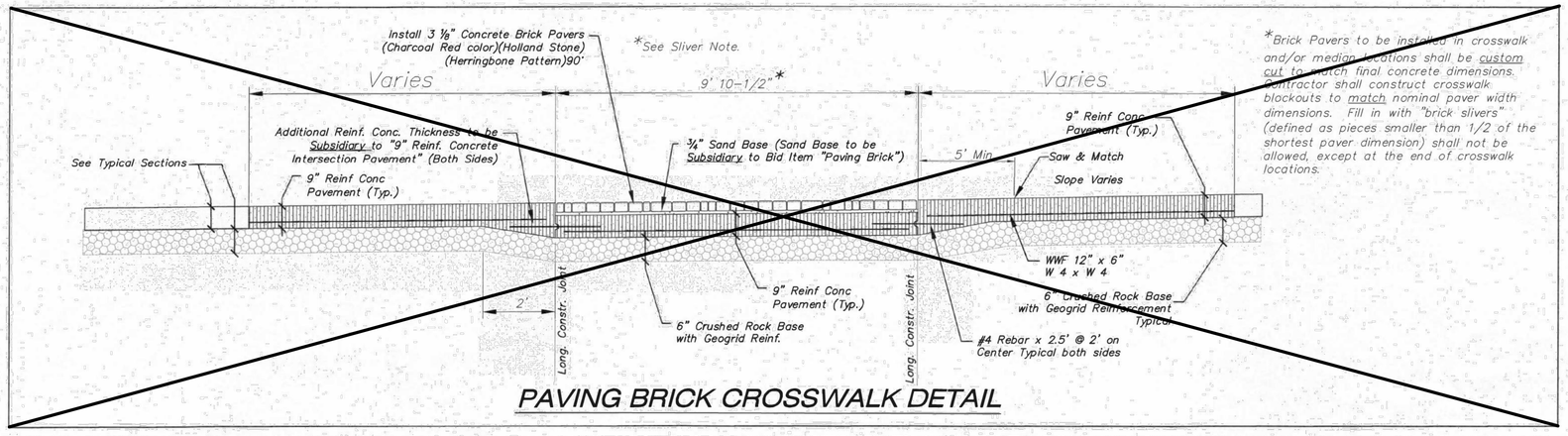
BACK OF CURB DETAIL



ALT. LONGITUDINAL CONSTRUCTION JOINT



EXPANSION JOINT (E.J.)



PAVING BRICK CROSSWALK DETAIL

*Brick Pavers to be installed in crosswalk and/or median locations shall be custom cut to match final concrete dimensions. Contractor shall construct crosswalk blockouts to match nominal paver width dimensions. Fill in with "brick slivers" (defined as pieces smaller than 1/2 of the shortest paver dimension) shall not be allowed, except at the end of crosswalk locations.

GENERAL NOTES

1. Expansion (isolation) joints shall be constructed a maximum of 300' apart and at all PIs, PCs, cul-de-sac quadrants, and ends of returns.

2. Contraction joints shall be constructed a minimum of 12' apart.

3. Joint sealer shall be required at all joints on arterial and industrial streets and at intersections on residential streets.

GARY L. JANZEN LICENSED 16044 12/31/25 KANSAS PROFESSIONAL ENGINEER

REVISED: OCTOBER 2015

CITY OF WICHITA
PUBLIC WORKS & UTILITIES ENGINEERING DIVISION

CURB & GUTTER & PAVING BRICK CROSSWALK DETAILS

CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER	OCA NUMBER	DATE

CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

SHEET

ROBERT CHESNUTT LICENSED 23491 08/05/2025 KANSAS PROFESSIONAL ENGINEER

BAUGHMAN COMPANY
315 Ellis St.
Wichita, KS 67211
316-262-7271
BaughmanCo.com

CITY OF WICHITA
17TH STREET

PV101 CURB AND GUTTER DETAILS

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

DESIGN: BDC DRAWN: TMS

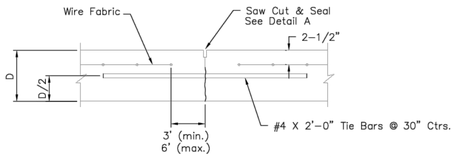
DATE: August 5, 2025

SHEET 43 OF 148

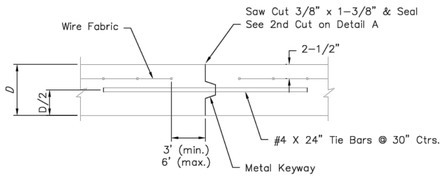
File: E:\Projects\Wichita 17th St. I-135 to Hillside (23-04-E484)\Engineering\DWG\PAVING DETAILS.dwg

PV-101

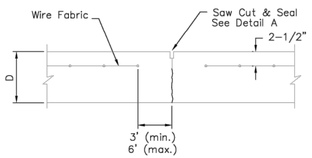
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	44	148



LONGITUDINAL JOINT DETAIL (L.J.)



OPT. LONGITUDINAL JOINT DETAIL (L.J.)

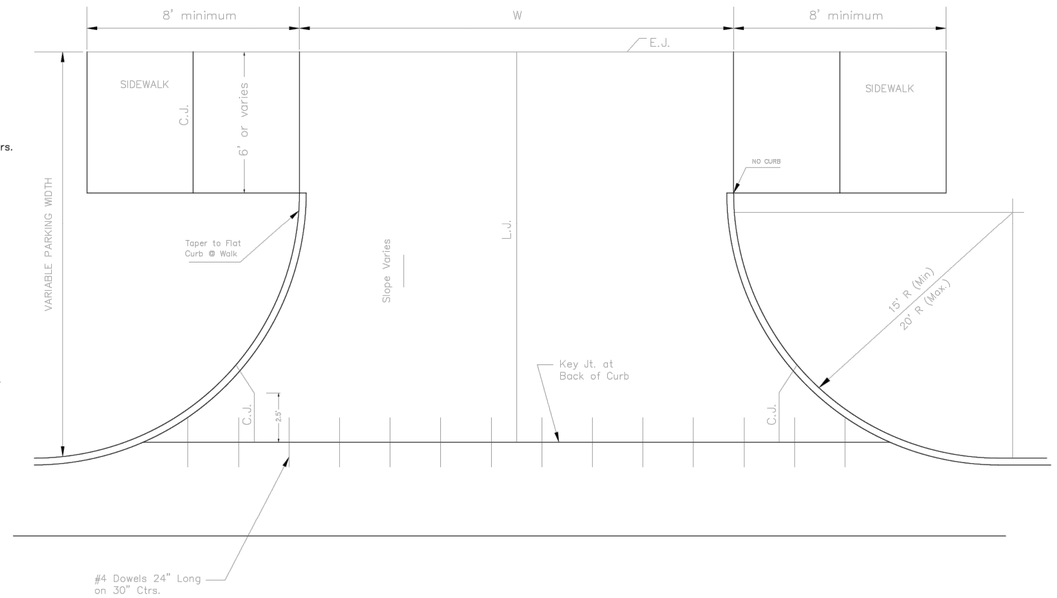


CONTRACTION JOINT DETAIL (C.J.)

OPTIONAL CONTRACTION JOINT

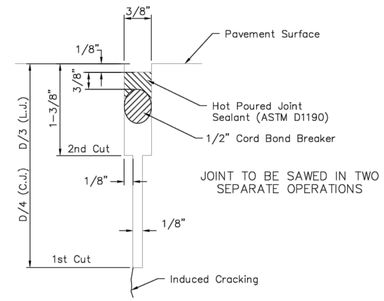
EXPANSION (ISOLATION) JOINT

NOTE: Extra Thickness to be Subsidiary to Price of Square Yards Pavement

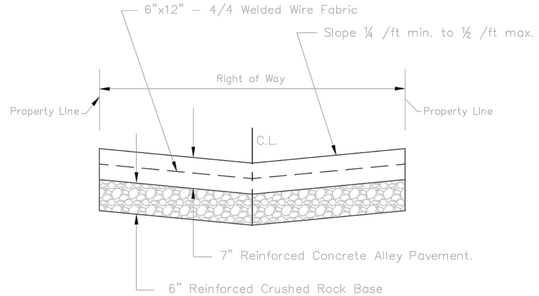


Use Ramp–Type Approach when distance between fc. wk. & bk. cb. is 8'–0" or less. Where parking width is 8'–0" or less ramp shall be constructed full width.

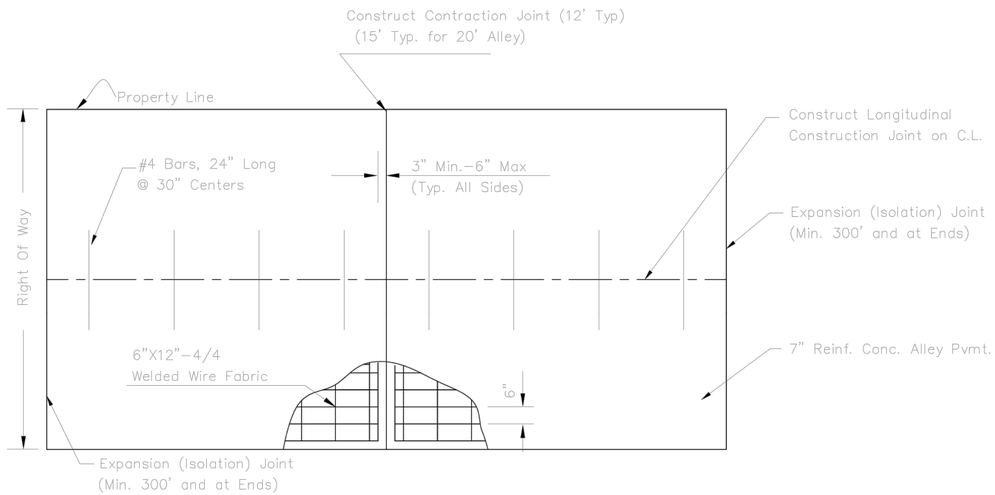
ALLEY APPROACH DETAIL



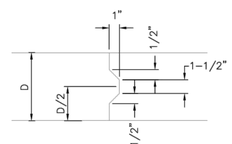
SAW JOINT DETAIL
(Detail A)



TYPICAL PAVEMENT SECTION



SLAB REINFORCEMENT DETAIL



KEYWAY DETAIL

REVISED: NOVEMBER 2015

CITY OF WICHITA
PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

REINFORCED CONRETE ALLEY PAVING DETAIL

CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER	OCA NUMBER	DATE

CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

SHEET

PV–108

BRENT CHESNUT
LICENSED
2349
08/05/2025
KANSAS
PROFESSIONAL ENGINEER

BAUGHMAN COMPANY
315 Ellis St.
Wichita, KS 67211
316-262-7271
BaughmanCo.com

CITY OF WICHITA
17TH STREET

PV108 ALLEY PAVING DETAILS

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

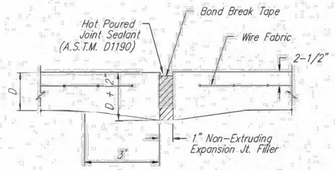
DESIGN: BDC DRAWN: TMS

DATE: August 5, 2025

SHEET 44 OF 148

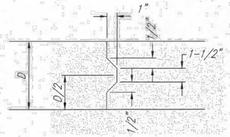
File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\PAVING DETAILS.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	45	148

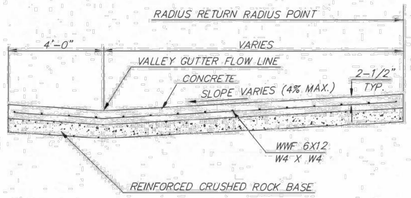


EXPANSION JOINT

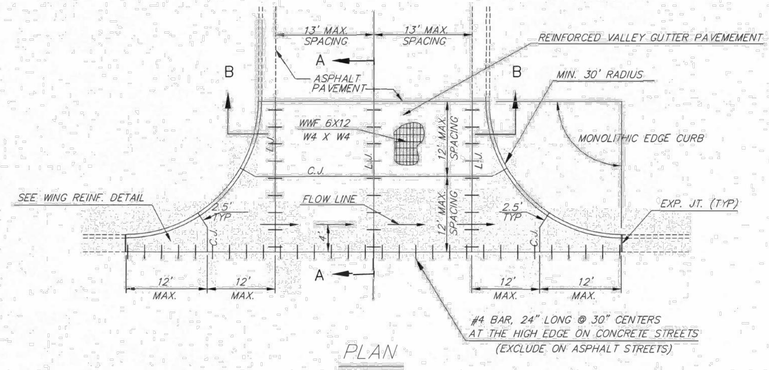
NOTE: Extra Thickness to be Subsidiary to Price of Square Yards Pavement



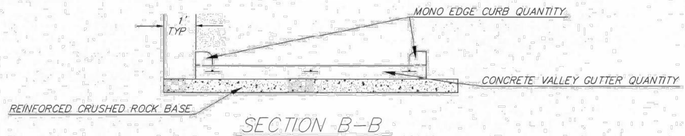
KEYWAY DETAIL



SECTION A–A

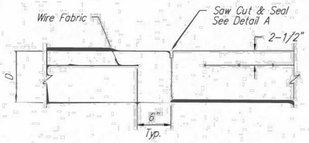


PLAN

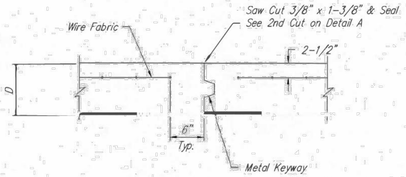


SECTION B–B

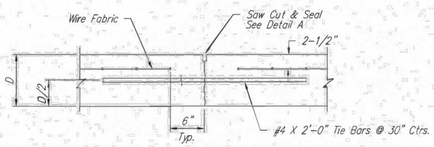
REINFORCED VALLEY GUTTER DETAIL



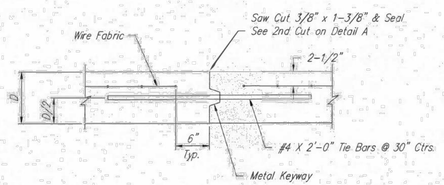
CONTRACTION JOINT DETAIL (C.J.)



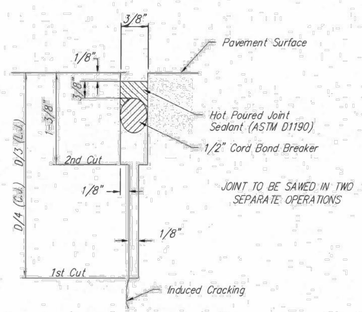
OPTIONAL CONTRACTION JOINT



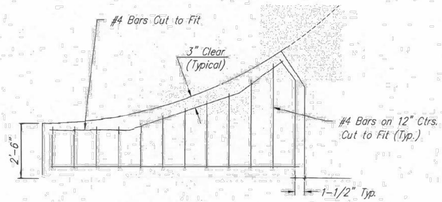
LONGITUDINAL JOINT DETAIL (L.J.)



OPTIONAL LONGITUDINAL JOINT DETAIL (L.J.)



SAW JOINT DETAIL (DETAIL A)



WING REINFORCING DETAIL

REVISION MAY 2017	SECTION B–B, ROCK EXTENDED ONE FOOT BEYOND PAVEMENT

CITY OF WICHITA

PUBLIC WORKS & UTILITIES ENGINEERING DIVISION

VALLEY GUTTER DETAILS

CITY ENGINEER: GARY JANZEN, P.E.

PROJECT NUMBER	OCA NUMBER	DATE

CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

SHEET

GARY L. JANZEN LICENSED 16294 12/31/25 KANSAS PROFESSIONAL ENGINEER

BRENT CHESNUT LICENSED 23419 08/05/2025 KANSAS PROFESSIONAL ENGINEER

BAUGHMAN COMPANY
315 Ellis St.
Wichita, KS 67211
316-262-7271
BaughmanCo.com

CITY OF WICHITA
17TH STREET

PV109 VALLEY GUTTER DETAILS

STREET IMPROVEMENTS

PROJECT NUMBER: 472-2023-085860
23-04-E484

DESIGN: BDC DRAWN: TMS

DATE: August 5, 2025

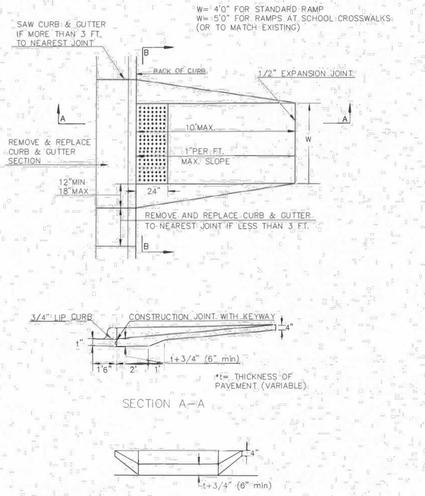
SHEET 45 OF 148

PV–109

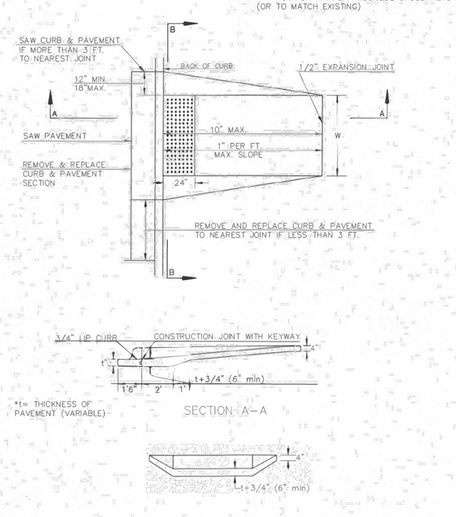
File: E:\Projects\Wichita 17th St. I-135 to Hillside (23-04-E484)\Engineering\DWG\PAVING DETAILS.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	46	148

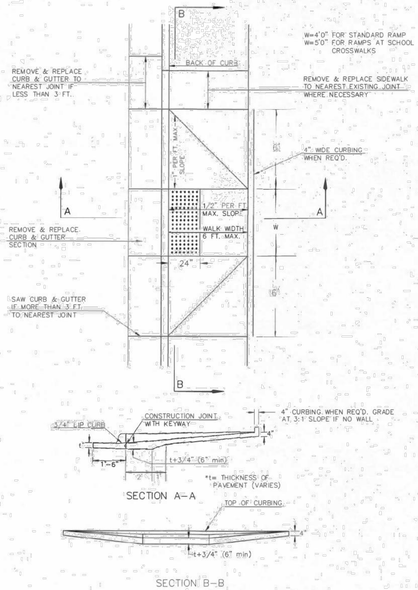
STANDARD WHEELCHAIR RAMP CONSTRUCTION DETAIL FOR STREETS WITH COMBINED CURB & GUTTER (TYPE A)



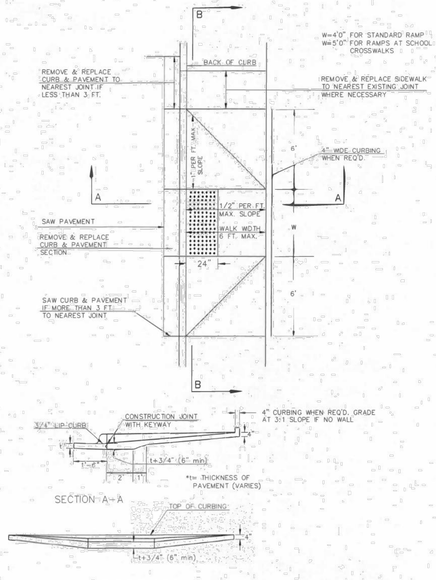
STANDARD WHEELCHAIR RAMP CONSTRUCTION DETAIL FOR CONCRETE STREETS WITH MONOLITHIC CURB (TYPE A)



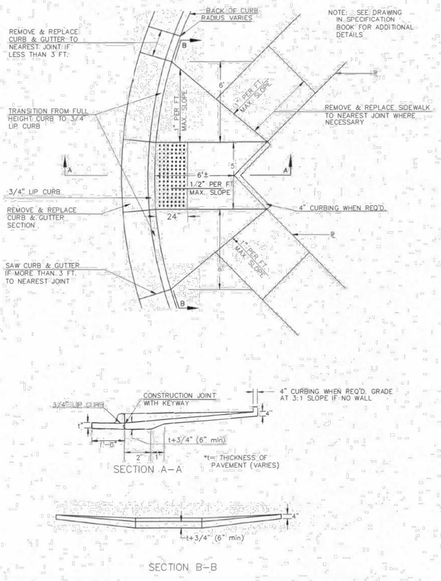
STANDARD WHEELCHAIR RAMP CONSTRUCTION DETAIL FOR STREETS WITH COMBINED CURB & GUTTER AND FULL WALK (TYPE B)



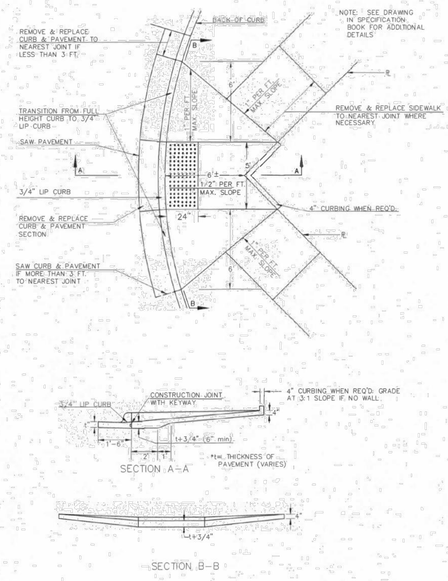
STANDARD WHEELCHAIR RAMP CONSTRUCTION DETAIL FOR STREETS WITH MONOLITHIC CURB AND FULL WALK (TYPE B)



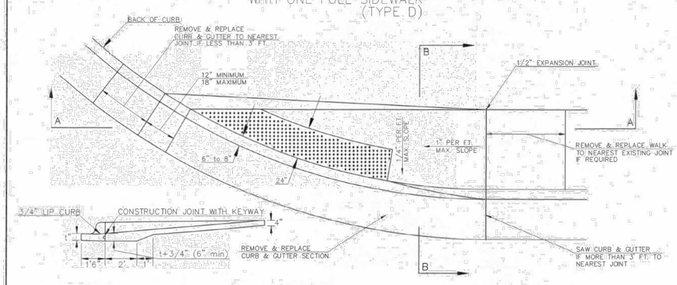
STANDARD WHEELCHAIR RAMP CONSTRUCTION DEAIL FOR STREET WITH COMBINED CURB AND GUTTER ON RADIUS WITH 6'± FROM BACK OF CURB TO PROPERTY CORNER (TYPE C)



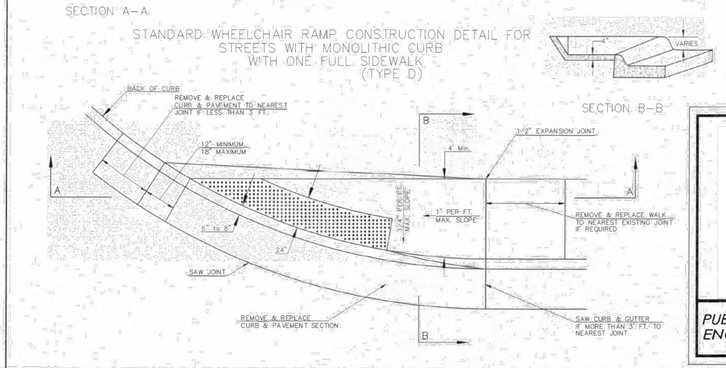
STANDARD WHEELCHAIR RAMP CONSTRUCTION DETAIL FOR STREET WITH MONOLITHIC CURB ON RADIUS WITH 6'± FROM BACK OF CURB TO PROPERTY CORNER (TYPE C)

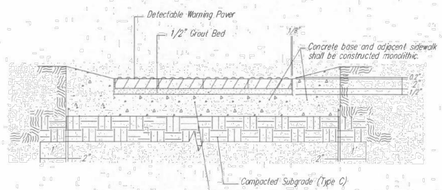


STANDARD WHEELCHAIR RAMP CONSTRUCTION DETAIL FOR STREETS WITH COMBINED CURB & GUTTER WITH ONE FULL SIDEWALK (TYPE D)



STANDARD WHEELCHAIR RAMP CONSTRUCTION DETAIL FOR STREETS WITH MONOLITHIC CURB WITH ONE FULL SIDEWALK (TYPE D)

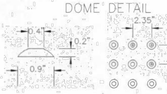




TYPICAL SECTION DETECTABLE WARNING PAVER
SECTION A-A

NOTE: HANOVER DETECTABLE WARNING PAVERS (OR AN APPROVED ALTERNATE) SHALL BE USED IN ALL WHEELCHAIR RAMPS. THE 11 3/4" RED 15" PAVER SHALL BE USED IN ALL APPLICATIONS.
HANOVER ARCHITECTURAL PRODUCTS
240 BENDER ROAD
HANOVER, PA 17331
1-717-637-0500
www.hanoverpavers.com

DOME DETAIL



CITY OF WICHITA
PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

WHEELCHAIR RAMP DETAILS WITH DETECTABLE WARNING

CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER	OCA NUMBER	DATE
		08/2013

CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

SHEET

PV-110

BRENT CHESNUT LICENSED 23419 08/05/2025 KANSAS PROFESSIONAL ENGINEER

GARY L. JANZEN LICENSED 15724 7/31/13 KANSAS PROFESSIONAL ENGINEER

BAUGHMAN COMPANY
315 Ellis St.
Wichita, KS 67211
316-262-7271
BaughmanCo.com

CITY OF WICHITA
17TH STREET

PV110 SIDEWALK RAMP DETAILS

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

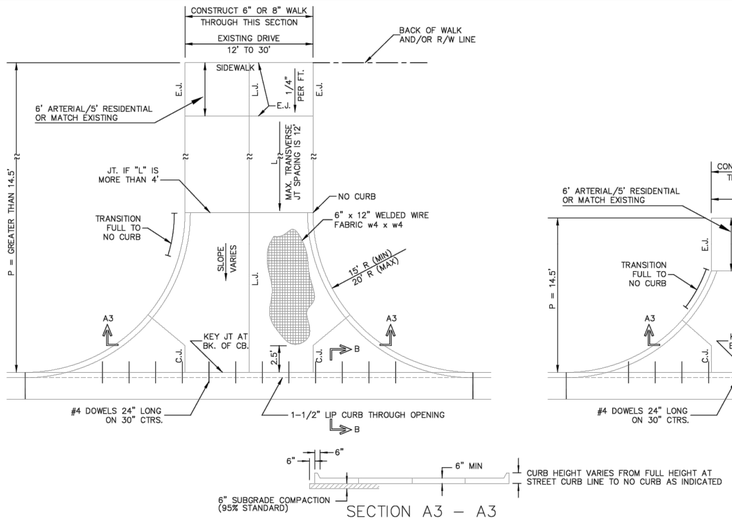
DESIGN: BDC DRAWN: TMS

DATE: August 5, 2025

SHEET 46 OF 148

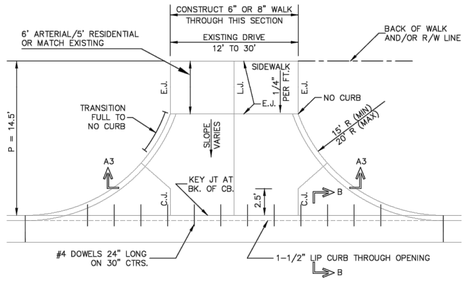
File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\PAVING DETAILS.dwg

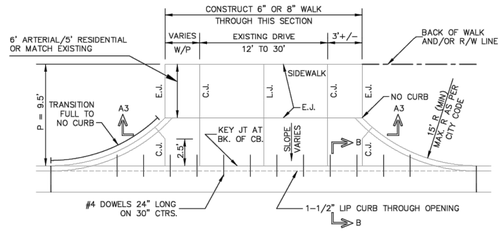
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	47	148

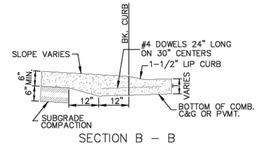


SECTION A3 – A3

FULL RADIUS DRIVES (ARTERIAL/COLLECTOR DRIVEWAY)

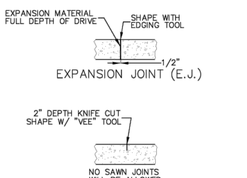




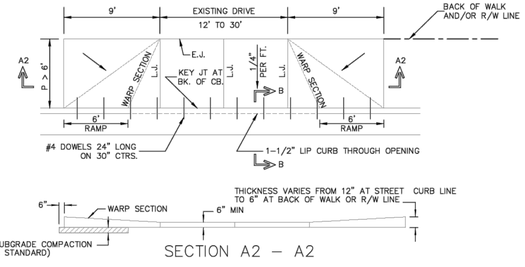


SECTION B – B

ALT. LONGITUDINAL CONSTRUCTION JOINT

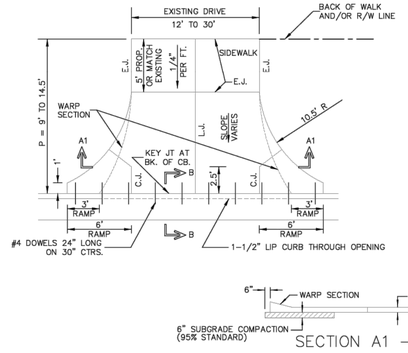


BACK OF CURB DETAIL



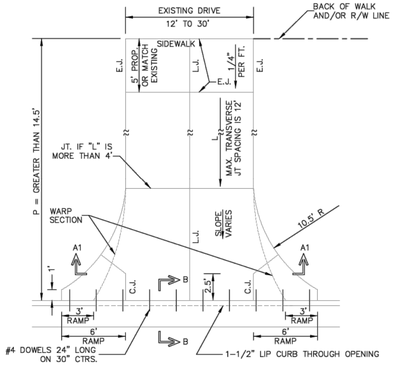
SECTION A2 – A2

FULL RAMP DRIVES (P = 4.0' & 6.5')



SECTION A1 – A1

RADIUS RAMP DRIVES (RESIDENTIAL DRIVEWAY)



GENERAL NOTES

1. DRIVEWAY CONSTRUCTION DETAILED ON THIS SHEET IS FOR USE WITH FULL HEIGHT STREET CURBS AND IN AREAS WITHOUT FULL WALK CONSTRUCTION IN THE PARKING. SEE OTHER DETAIL SHEETS FOR DRIVEWAY CONSTRUCTION WITH ROLL CURB AND/OR FULL WALK.
2. ONE LONGITUDINAL JOINT SHALL BE CONSTRUCTED ALONG THE CENTERLINE OF DRIVES HAVING A WIDTH DIMENSION OF 24' OR LESS. TWO LONGITUDINAL JOINTS SHALL BE CONSTRUCTED WITH EQUAL SPACINGS NOT TO EXCEED 10' FOR DRIVES WITH A WIDTH DIMENSION GREATER THAN 24'.
3. DRIVEWAY WIDTH DENOTED AS WIDTH ON THE DETAIL DRAWINGS SHALL BE A MINIMUM OF 12' AND A MAXIMUM OF 30'. THE MAXIMUM OPENING FOR RADIUS TYPE DRIVES WITH CURBS THROUGH THE RADIUS SHALL NOT EXCEED 52' AT THE STREET CURB LINE.
4. CONTRACTION JOINT SPACING IN THE DRIVEWAY WALK SECTION SHALL BE A MINIMUM OF 3' AND A MAXIMUM OF 6' AND ARE TO BE EQUALLY SPACED WITHIN THIS RANGE. WALK SECTION SHALL BE CONSTRUCTED TO THE SAME THICKNESS AS THE DRIVEWAY.
5. ADDITIONAL THICKNESS OF DRIVE AS INDICATED IN THE DRAWINGS WILL NOT BE PAID FOR DIRECTLY AND THIS COST SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE DRIVEWAY CONSTRUCTION.
6. ONE HALF INCH EXPANSION JOINTS SHALL BE INSTALLED WHEREVER DRIVE CONSTRUCTION ABUTS SIDEWALK. ONE HALF INCH EXPANSION JOINTS SHALL ALSO BE INSTALLED ALONG THE PROPERTY LINE AND/OR BACK OF WALK LINE WHEN DRIVE CONSTRUCTION ALONG THIS LINE ABUTS CONCRETE PARKING LOTS OR CONCRETE DRIVE EXTENSION.
7. DRIVEWAYS ONLY ON RESIDENTIAL PROPERTIES ONLY CAN BE CONSTRUCTED WITH 6" IN THICKNESS AND CAN BE WITHOUT REINFORCEMENT.
8. ALL DRIVEWAYS TO NONRESIDENTIAL PROPERTY SHALL BE A MINIMUM OF 8" IN THICKNESS AND SHALL HAVE REINFORCEMENT WITH 6"x12", W4xW4.

REVISED: NOVEMBER 2015

CITY OF WICHITA

PUBLIC WORKS & UTILITIES ENGINEERING DIVISION

STANDARD DRIVE ENTRANCES FULL HEIGHT CURB

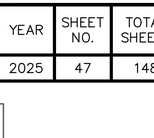
CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER	OCA NUMBER	DATE

CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

SHEET

PV–126



BAUGHMAN COMPANY
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BaughmanCo.com

CITY OF WICHITA
17TH STREET

PV126 ENTRANCE DETAILS

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

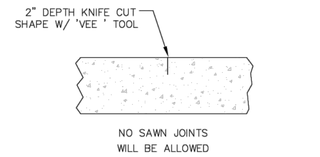
DESIGN: BDC DRAWN: TMS

DATE: August 5, 2025

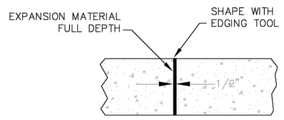
SHEET 47 OF 148

File: E:\Projects\Wichita 17th St. I-135 to Hillside (23-04-E484)\Engineering\DWG\PAVING DETAILS.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	48	148

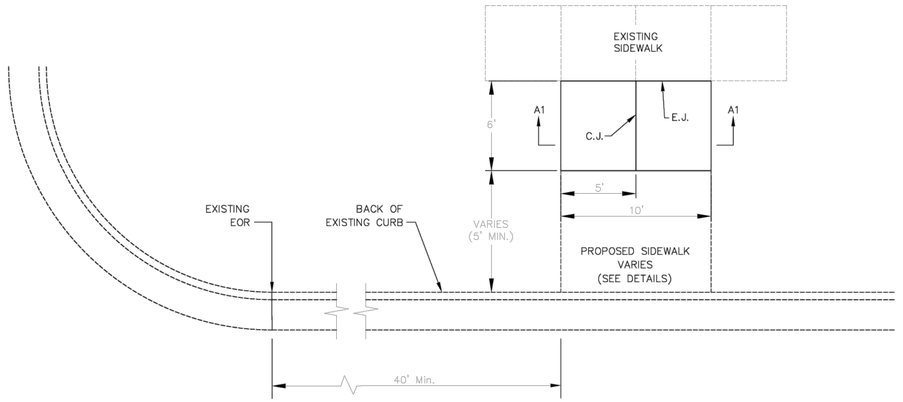


CONTRACTION JOINT (C.J.)
OR LONGITUDINAL JOINT (L.J.)

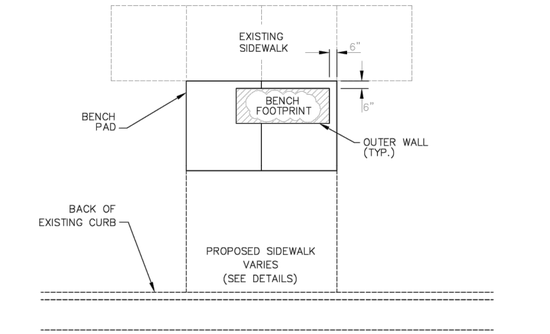


EXPANSION JOINT (E.J.)

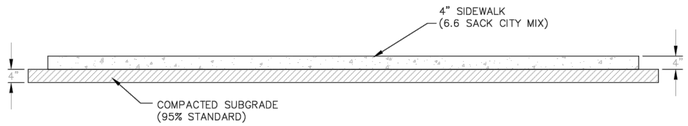
ALT. LONGITUDINAL CONSTRUCTION JOINT



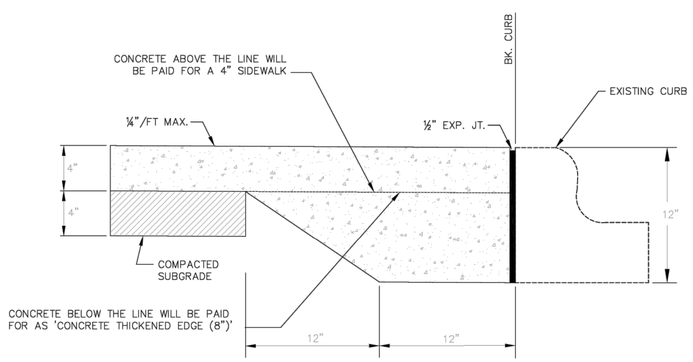
FREESTANDING BENCH PAD



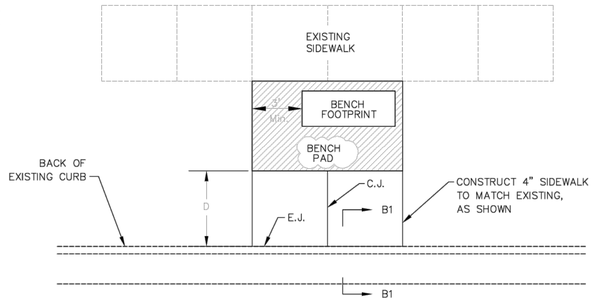
BENCH LAYOUT



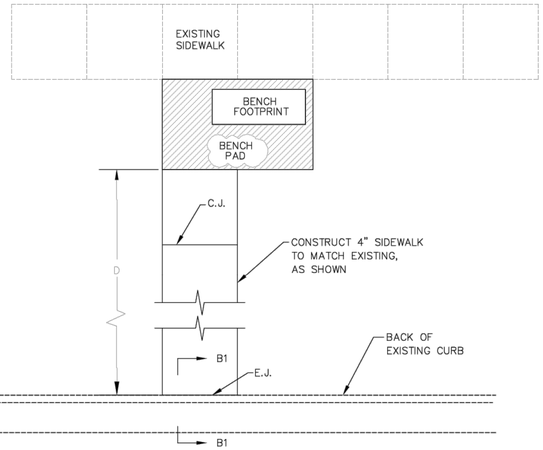
SECTION A1 – A1



SECTION B1 – B1



SIDEWALK CONSTRUCTION, D≤5'



SIDEWALK CONSTRUCTION, D>5'

GENERAL NOTES

1. IN THE ABSENCE OF EXISTING SIDEWALK, THE MINIMUM 5' SET BACK DISTANCE SHALL BE MAINTAINED.
2. EXCEPT AS OTHERWISE NOTED, SIDEWALK SLOPE MUST NOT EXCEED 5%, IN THE DIRECTION OF TRAVEL, OR 2% PERPENDICULAR TO THE DIRECTION OF TRAVEL.
3. ALL SIDEWALK WITHIN 5'OF BACK–OF–CURB MUST BE CONSTRUCTED AS A LANDING AREA, WITH SLOPES NOT IN EXCESS OF 2% IN ANY DIRECTION.
4. ALL CONCRETE MUST MEET THE REQUIREMENTS OF THE 6.6 SACK CITY MIX.

AUGUST 2015

CITY OF WICHITA

PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

FREESTANDING BENCH STANDARD DETAILS

CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER	OCA NUMBER	DATE

CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

SHEET

PV–143

BRENT CHESNUT
LICENSED
23419
08/05/2025
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PROFESSIONAL ENGINEER

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CITY OF WICHITA
17TH STREET

PV143 BENCH PAD DETAILS

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

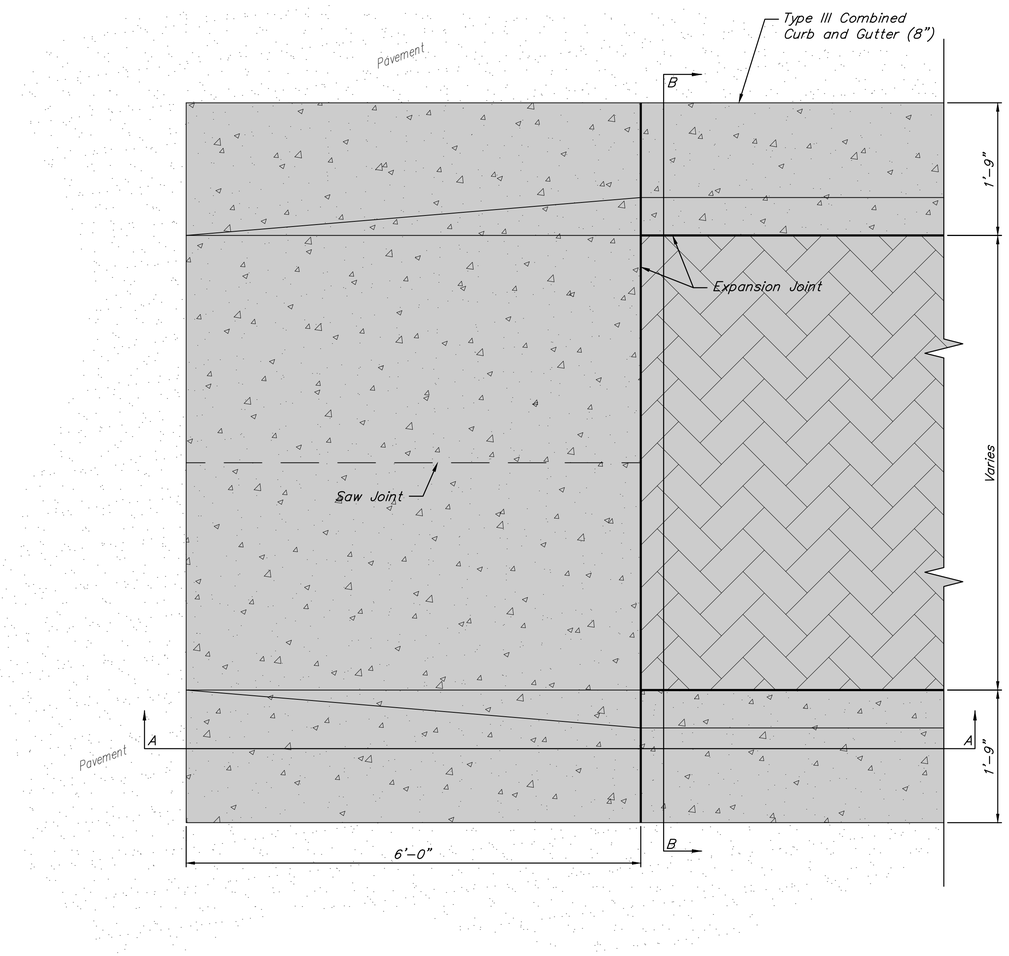
DESIGN: BDC DRAWN: TMS

DATE: August 5, 2025

SHEET 48 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\PAVING DETAILS.dwg

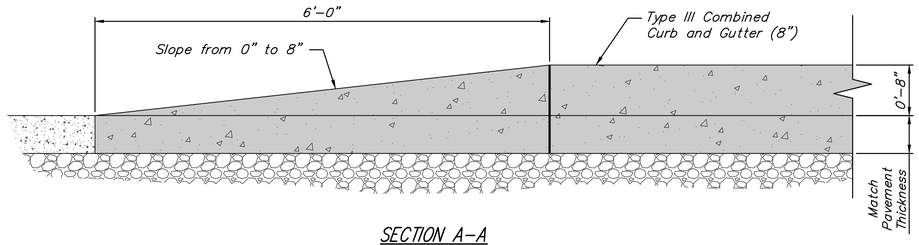
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	49	148



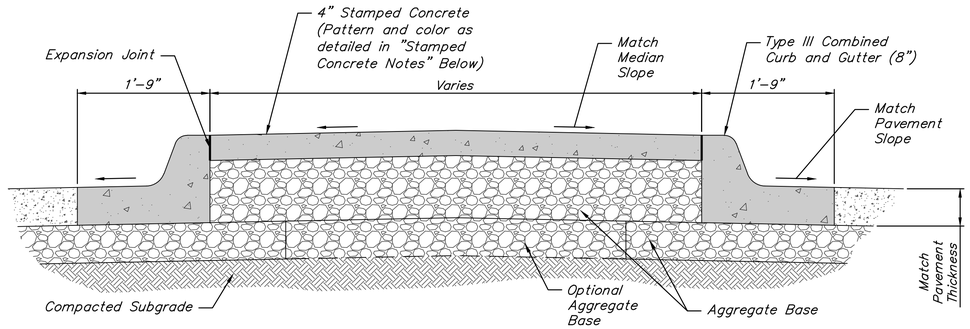
CONCRETE NOSE MEDIAN – PLAN VIEW
NOT TO SCALE

STAMPED CONCRETE NOTES

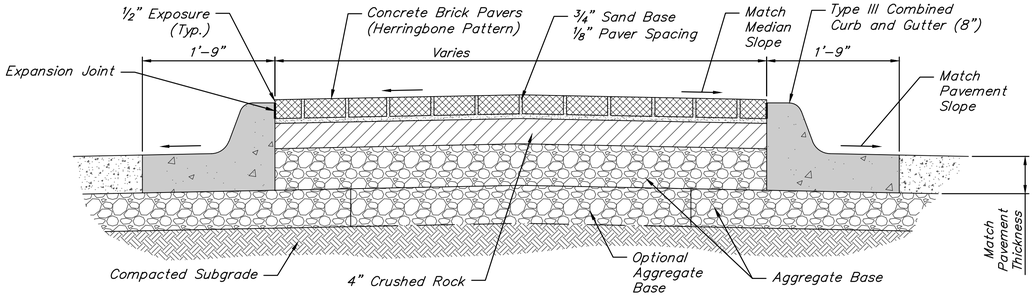
1. Stamping and color details:
   - Integral Color– Ruby (Brickform Powdered Integral Color)
   - Color Hardener– Not Applicable
   - Powdered Release Agent– Dark Grey (Brickform Antique release)
   - Stamp Pattern– Herringbone
   - Concrete Sealer– Decra–Seal (W.R. Meadows)
2. Contractor may submit alternative products to be approved as equals prior to construction.
3. Integral color additive shall be a pure iron oxide pigment.
4. All additives and products must be approved by the Engineer prior to placement of the concrete. Material data sheets and samples of the colors must be submitted prior to construction.
5. A concrete mix design must be submitted to the City of Wichita Materials Lab Engineer for approval prior to construction.
6. If noted above, Contractor to apply a color hardener to be troweled into the surface after placement of concrete.
7. Apply powdered release agent prior to stamping.
8. Contractor shall joint the concrete to match the curb joints.
9. Once cured, the contractor shall clean the concrete and apply a sealer per manufacturers recommendations.
10. Contractor shall be required to install a 4'x4' mock up using approved materials prior to construction if project total stamped concrete median quantity exceeds 500 SF (55 SY).



SECTION A–A
NOT TO SCALE



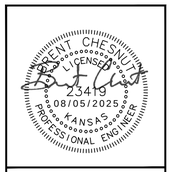
SECTION B–B – STAMPED CONCRETE MEDIAN
NOT TO SCALE



SECTION B–B – BRICK PAVER MEDIAN
NOT TO SCALE

BRICK PAVER NOTES

1. Concrete Brick Pavers shall meet or exceed ASTM C936. The style shall be "Holland Stone" (4"x8"x3–1/8") as manufactured by Pavestone, Inc. or equal as approved by engineer. Color shall be "Charcoal Red" and laying pattern shall be Herringbone. Pavers shall be included in the bid item "Brick Pavers" paid for by the square yard.
2. Sand bedding shall meet the specifications requirements for fine aggregate. An uncompacted sand laying course shall be spread evenly over the area to be paid and then screeded to a level of approximately ¾" maximum thickness. Once screeeded and leveled to the desired elevation, the sand laying course shall not be disturbed in any way. Sand bedding shall be included in the "Brick Pavers" bid item.
3. The paving brick shall be installed in a herringbone pattern. Stones shall be placed with the chamfered side up, and joint spaces kept uniform approximately ⅛" thick. The gaps at the edge of the paved surface shall be filled with stones cur to fit. Cutting shall be accomplished to leave a clean edge toward the traffic surface, using a masonry saw. Whenever possible, no cuts should result with a paver less than one–third of its original dimension.
4. Paving brick shall be vibrated to their final level in the sand laying course by tow or three passes of a vibrating compactor capable of 3000 to 5000 pounds compaction force with the surface clean and joints open.
5. After vibration, clean concrete sand shall be spread over the paving stone surface, allowed to dry, and vibrated into the joints with additional passed of the plate vibrator so as to completely fill the joints. A light coating of sand shall be swept over the completed surface and left to weather in.



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CITY OF WICHITA
17TH STREET

PAVING DETAILS - CONCRETE NOSE MEDIAN

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

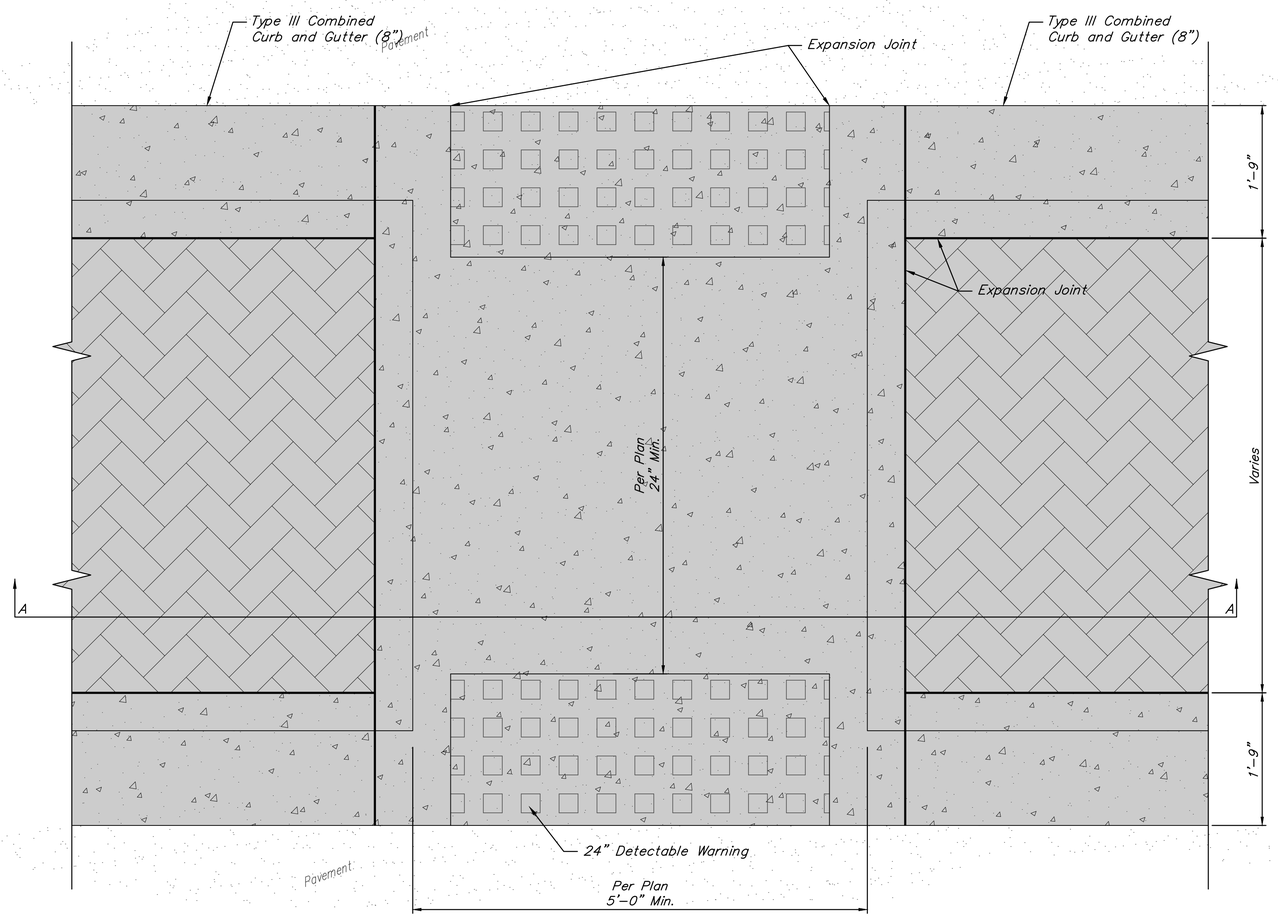
DESIGN: BDC DRAWN: TMS

DATE: August 5, 2025

SHEET 49 OF 148

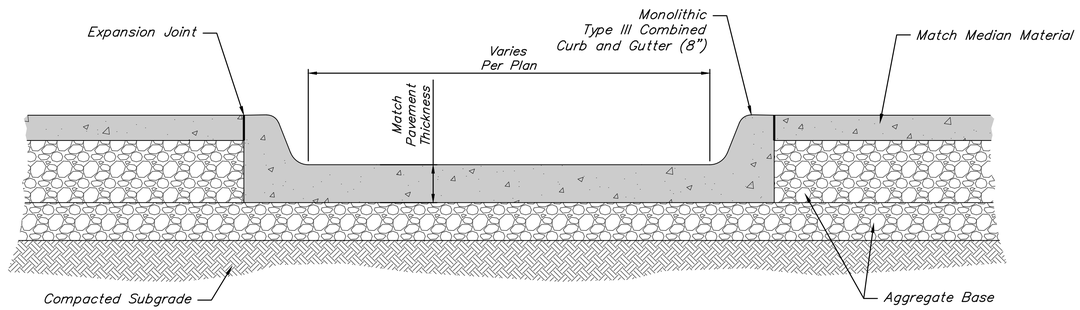
File: E:\Projects\Wichita 17th St. I-135 to Hillside (23-04-E484)\Engineering\DWG\PAVING DETAILS.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	50	148

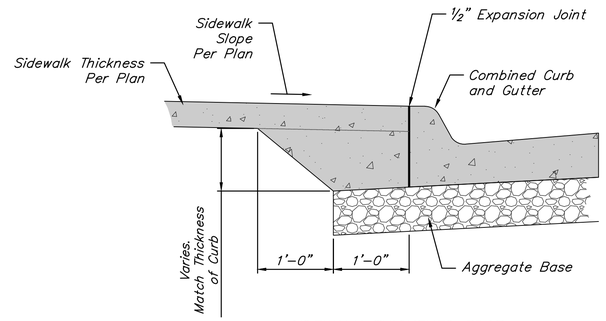


PEDESTRIAN REFUGE ISLAND – PLAN VIEW
NOT TO SCALE

NOTES
1. Paid for as a total quantity of two under the Bid Item "Wheelchair Ramp w/Detectable Warnings".
2. Curb and Gutter and Concrete Median Paid for under separate Bid Items.

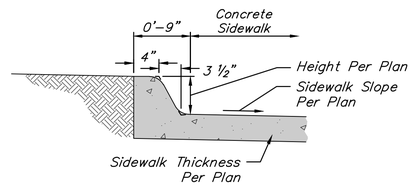


SECTION A–A – PEDESTRIAN REFUGE ISLAND
NOT TO SCALE



SIDEWALK THICKENED EDGE
NOT TO SCALE

NOTES
1. All sidewalk at the back of curb shall be Thickened.
2. Paid for by the Linear Foot under the Bid Item "Sidewalk Thickened Edge".



CONCRETE PROTECTION CURB
NOT TO SCALE

NOTES
1. Protection Curb shall be installed at locations identified in Plan.
2. Protection Curb shall also be installed at the direction of the Engineer or as a means to accommodate adjacent grades but shall not exceed 12" in height. Contractor shall obtain approval prior to installing Protection Curb locations other than those identified in the Plans.
3. Protection Curb shall be installed monolithically with Sidewalk.
4. Protection Curb height will vary as identified in Plan.
5. Transition Protection Curb at ends as necessary to accommodate grading.
6. Paid for by the Linear Foot under the Bid Item "Concrete Protection Curb" regardless of height.

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CITY OF WICHITA
17TH STREET

PAVING DETAILS - MISC SIDEWALK

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

DESIGN: BDC DRAWN: TMS

DATE: August 5, 2025

SHEET 50 OF 148

File: E:\Projects\Wichita 17th St I-135 to Hillside (23-04-E484)\Engineering\DWG\PAVING DETAILS.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	51	148

Tree Removal

Location	Station	Offset	Side	LARGE (>15" D)	SMALL (<15" D)
17th St	8+46.21	29.10	Rt	1	
	8+67.61	28.97	Rt	1	
	17+01.79	31.10	Lt		1
	17+43.18	31.46	Lt		1
	17+84.35	31.95	Lt		1
	19+29.32	29.33	Lt	1	
	19+75.96	28.42	Lt	1	
	20+87.14	33.33	Lt	1	
	21+14.40	46.53	Lt	1	
	21+60.82	44.24	Lt	1	
	21+75.87	46.80	Lt	1	
	24+65.08	30.71	Lt	1	
	28+08.23	46.40	Rt		1
	28+10.75	45.82	Rt		1
	28+38.80	26.64	Rt	1	
	28+88.02	31.39	Rt	1	
	29+00.26	30.66	Rt	1	
	30+09.65	30.21	Rt	1	
	30+79.80	27.47	Rt	1	
	32+13.20	37.92	Lt	1	
	34+91.14	34.98	Rt	1	
	35+69.28	37.33	Lt	1	
	36+37.73	29.72	Rt	1	
	36+49.41	30.25	Lt	1	
	36+62.63	29.07	Rt	1	
	38+92.10	26.82	Rt	1	
	39+82.14	43.01	Lt	1	
	40+31.74	36.07	Rt		1
	40+69.56	35.56	Rt		1
	40+81.19	42.07	Lt	1	
			Totals	23	7

Pipe Abandoned in Place

Location	Station	Station	Side	12" RCP	15" RCP	36" RCP
				LF	LF	LF
17th St	12+65.89	13+33.96	Rt		73	
	16+67.98	17+89.79	Rt			124
	18+00.60	18+77.14	Rt	82		
	18+04.94	18+86.21	Lt	87		
	21+70.98	22+47.02	Rt	82		
	21+77.53	22+54.68	Lt	83		
	24+48.01	26+24.01	Lt	83		
	25+40.90	26+17.45	Rt	82		
	29+15.03	29+78.20	Lt	70		
	29+13.55	19+79.48	Rt	71		
	32+45.47	33+11.21	Rt	71		
17th St			Totals	711	73	124

Removal of Existing Structures (Information Only)

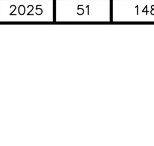
Location	Station	Offset	Side	Item	15" RCP	18" RCP	24" RCP	36" RCP
					LF	LF	LF	LF
17th St	4+47.76	24.53	Lt	MH Rim & Cone				
	5+05.69	9.13	Lt	MH				
	6+05.58	23.91	Lt	Curb Inlet	16.0			
	6+12.56	19.97	Rt	Curb Inlet	28.0			
	6+13.04	9.35	Lt	MH				
	12+54.97	21.84	Lt	Curb Inlet				
	12+63.08	22.05	Lt	Curb Inlet	22.0			
	12+63.25	21.4	Rt	Curb Inlet		28.0		
	12+67.08	7.19	Lt	MH				
	13+36.59	22.39	Rt	Curb Inlet				
	15+88.66	21.23	Rt	Curb Inlet	11.0			
	15+89.99	21.18	Lt	Curb Inlet			32.1	
	16+04.55	42.38	Lt	Curb Inlet				
	16+37.36	41.52	Lt	Curb Inlet			30.5	
	16+50.78	6.86	Lt	MH				
	16+63.00	22.74	Lt	3x Curb Inlet	15.0	26.0		
	16+65.55	34.86	Rt	MH				82.0
	16+65.72	22.79	Rt	3x Curb Inlet	29.0			
	17+97.77	22.54	Rt	2x Curb Inlet	28.0			
	18+00.83	6.93	Lt	MH				
	18+02.07	21.48	Lt	2x Curb Inlet	15.0			
	18+88.43	22.79	Rt	2x Curb Inlet				
	18+89.65	22.76	Lt	2x Curb Inlet				
	21+68.23	21.34	Rt	Curb Inlet	28.0			
	21+71.02	7.15	Lt	MH				
	21+74.47	21.6	Lt	Curb Inlet	15.0			
	22+49.91	22.79	Lt	Curb Inlet				
	22+57.64	22.79	Lt	Curb Inlet				
	25+38.20	21.23	Rt	Curb Inlet	28.0			
	25+40.71	7.2	Lt	MH				
	25+45.17	21.13	Lt	Curb Inlet	15.0			
	26+20.36	22.46	Rt	Curb Inlet				
	26+27.91	22.77	Lt	Curb Inlet				
	29+11.03	21.7	Rt	Curb Inlet	28.0			
	29+11.34	6.37	Lt	MH				
	29+11.51	21.14	Lt	Curb Inlet	15.0			
	29+81.02	22.74	Lt	Curb Inlet				
	29+82.41	22.73	Rt	Curb Inlet				
	32+39.95	21.42	Lt	Curb Inlet	15.0			
	32+42.50	21.49	Rt	Curb Inlet	28.0			
	32+43.12	6.8	Lt	MH				
	33+14.16	22.9	Rt	Curb Inlet				
	36+46.64	24.41	Lt	Curb Inlet				
	39+01.18	24.33	Lt	Curb Inlet				
17th St			Totals	53 Structures	336.0	54.0	62.6	82.0

Removal of Existing Fences

Location	Station	Station	Side	Fence Removed (Chain Link)	Fence Removed (Wood Privacy)
17th St	18+76.95	20+19.65	Lt	170	
	26+84.88	27+62.14	Lt		93
	27+83.76	29+15.30	Lt	160	
17th St		Totals		330	93

Pavement Removal (Information Only)

Location	Station	Station	Offset	Side	Pavement Removal (SY)	Sidewalk, Drive, &/or PKG Lot Removed (SY)	Item
17th St	3+09.42	42+22.07	0.00	CL	20,375.2		Pavement
	3+19.08	3+42.90	23.02	Rt		18.8	Driveway
	3+58.91	6+30.16	32.24/34.66	Rt		172.7	Sidewalk
	4+99.78	6+20.88	22.70/46.00	Lt		80.8	Sidewalk / Driveway
	6+61.16	12+84.89	31.12/39.37	Rt		581.2	Sidewalk / Driveway
	7+01.53	7+07.79	22.76	Lt		14.4	Sidewalk
	7+22.61	7+40.61	44.22	Lt		10.5	Sidewalk
	7+55.19	7+59.00	22.69	Lt		8.1	Sidewalk
	7+90.72	8+11.97	22.69	Lt		8.5	Driveway
	9+10.64	9+53.22	22.75	Lt		90.5	Driveway
	11+33.31	11+56.54	22.06/21.63	Lt		24.2	Sidewalk
	11+37.05	11+52.82	41.18	Lt		17.1	Driveway
	13+15.99	16+04.79	34.98/37.80	Rt		147.7	Sidewalk / Driveway
	13+19.12	14+60.42	20.77/20.47	Lt		94.7	Sidewalk
	13+21.51	13+37.63	39.10/39.05	Lt		15.7	Driveway
	13+37.70	15+89.73	36.00/34.35	Rt		58.5	Parking Lot
	15+32.01	15+90.81	43.67/35.49	Lt		54.5	Sidewalk
	16+35.57	18+24.48	41.09/42.02	Rt		193.0	Sidewalk / Driveway
	18+56.05	21+94.98	44.22/39.76	Rt		191.6	Sidewalk / Driveway
	18+56.05	20+45.28	20.75/20.71	Lt		8.5	Driveway
	22+26.09	25+64.69	41.54/50.09	Rt		235.8	Sidewalk / Driveway
	23+54.83	23+87.27	20.67/20.75	Lt		63.8	Driveway
	23+87.27	24+15.06	20.75/20.70	Lt		8.2	Driveway
	25+51.01	25+71.59	20.70/51.02	Lt		28.0	Sidewalk
	25+96.08	29+30.37	46.41/43.54	Rt		233.3	Sidewalk / Driveway
	26+02.77	26+23.17	51.56/20.52	Lt		33.2	Sidewalk
	27+57.95	27+79.73	20.70/20.65	Lt		6.4	Driveway
	29+15.02	29+30.26	20.79/50.11	Lt		23.6	Sidewalk
	29+61.47	30+20.15	49.73/30.56	Lt		50.9	Sidewalk
	29+61.47	32+61.83	43.54/42.41	Rt		217.7	Sidewalk / Driveway
	31+02.42	31+21.49	20.74/20.66	Lt		5.5	Driveway
	31+00.53	32+46.34	52.50	Rt		64.7	Parking Lot
	32+93.05	35+92.78	49.84/49.90	Rt		239.0	Sidewalk / Driveway
	33+99.09	34+16.41	20.56/20.61	Rt		4.4	Driveway
	36+24.20	39+23.90	50.17/50.03	Rt		237.0	Sidewalk / Driveway
	36+55.09	37+01.87	20.51/20.43	Lt		73.5	Driveway
	37+40.20	37+76.06	20.34/20.33	Lt		45.7	Driveway
	38+69.15	38+79.11	46.07/46.12	Rt		17.0	Sidewalk
	39+10.06	39+24.47	34.14/51.38	Rt		17.3	Sidewalk
	39+55.17	42+27.13	51.16/40.80	Rt		221.6	Sidewalk / Driveway
	39+55.97	42+37.59	51.81/43.85	Lt		303.9	Sidewalk / Driveway
	45+81.11	45+90.86	49.95/50.80	Lt		5.6	Sidewalk
	49+51.60	51+08.26	51.31/45.23	Lt		86.0	Sidewalk
17th St			Totals		20,375.2	4,151.2	
					Totals	24,526.4	



BAUGHMAN COMPANY
315 Ellis St.
Wichita, KS 67211
316-262-7271
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CITY OF WICHITA
17TH STREET

SUMMARY OF QUANTITIES 1

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

DESIGN: BDC DRAWN: TMS

DATE: August 5, 2025

SHEET 51 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\QUANTITIES RECAP.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	52	148

Mainline Pavement

Location	Station	Station	Side	Concrete Pavement 9" (Reinf.) (SY)	Concrete Pavement 9" (NRDJ.) (SY)	AC Pavement 7" (5" Bit. Base) (SY)	Crushed Rock Base 8", Reinforced (SY)	HMA Surface (Ultrathin Bonded)(Type A)(PG 70–28)(TONS)	Emulsified Asphalt (Emulsion Bonding Liquid)(TONS)	Transitional Milling (SY)	Remarks
17th St	3+09.41	6+70.00	CL			1,760.8	1,760.8				
	6+70.00	10+60.00	CL			1,906.7	1,906.7				
	10+60.00	14+60.00	CL			1,903.4	1,903.4				
	14+60.00	19+00.00	CL			2,114.5	2,114.5				
	19+00.00	22+70.00	CL			1,808.9	1,808.9				
	22+70.00	26+40.00	CL			1,808.9	1,808.9				
	26+40.00	30+00.00	CL			1,760.0	1,760.0				
	30+00.00	33+40.00	CL			1,662.2	1,662.2				
	33+40.00	36+70.00	CL			1,613.3	1,613.3				
	36+70.00	39+90.00	CL			1,564.4	1,564.4				
	39+90.00	42+23.07	CL			1,139.4	1,139.4				
	43+19.81	43+29.91	CL							49.0	
	43+19.91	47+50.00	CL					80.7	2.2		
	47+50.00	53+00.00	CL					103.3	2.8		
	53+00.00	57+50.00	CL					84.6	2.3		
	57+50.00	62+70.00	CL					97.6	2.6		
	62+70.00	68+10.64	CL					112.5	3.0		
	68+00.64	68+10+64	CL							59.0	
17th St		Totals				19,042.5	19,042.5	478.7	12.9	108.0	

Concrete Median Construction

Location	Station	Station	Side	Concrete C&G, Type 3 (8" & 1–1/2") (LF)	Crushed Rock Base 8", Reinforced (SY)	Stamped Concrete Median	Wheelchair Ramp w/Detectable Warnings (EA)	Concrete Ramp Nose Section (Median) (EA)	Remarks
17th St	14+21.38	14+69.88	Lt	52.0	15.9				
	14+21.38	14+69.86	CL		37.7	37.1			
	14+21.38		CL		7.0			1	
	14+21.38	14+69.88	Rt	52.0	15.9				
	14+75.38		CL		8.75		2		
	14+80.88	14+85.38	Lt	8.0	2.4				
	14+80.88	14+85.38	CL		3.5	3.5			
	14+80.88	14+85.38		8.0	2.4				
	14+85.38		CL		7.0			1	
17th St			Total	120.0	100.6	41.2	2	2	

Entrance / Alley / Parking Lot Pavement

Location	Station	Side	Concrete Driveway 6" (SF)	Concrete Driveway 8" (SF)	Concrete Pavement 7" (Reinf.)(SY)	Crushed Rock Base 6", Reinforced (SY)	AC Pavement 5" (SY)	Remarks
17th St	3+25.00	Lt.		118.7				
	3+30.96	Rt		191.5				
	4+16.64	Rt		237.0				
	5+18.13	Lt		381.6				
	6+82.93	Rt		289.9				
	7+33.28	Rt		245.7				
	7+83.81	Rt		218.7				
	8+33.16	Rt		218.7				
	8+83.55	Rt		218.7				
	9+29.77	Lt		818.3				
	9+32.83	Rt		218.7				
	10+11.93	Rt		613.3				
	10+75.03	Rt		612.7				
	11+45.73	Lt		402.8				
	12+90.61	Lt		363.5				
	14+00.00	Rt					67.9	Parking Lot – 13+37.70 to 14+60.00
	15+00.00	Rt					67.8	Parking Lot – 14+60.00 to 15+88.94
	17+23.05	Rt		707.6				
	20+25.31	Rt			42.5	42.5		Alley
	20+32.75	Lt			49.6	49.6		Alley
	23+71.43	Lt		594.8				
	23+95.21	Rt			61.4	61.4		Alley
	24+02.06	Lt			49.2	49.2		Alley
	27+65.43	Rt			67.4	67.4		Alley
	27+69.22	Lt			44.0	44.0		Alley
	31+11.53	Rt			44.1	44.1		Alley
	31+50.00	Rt					40.7	Parking Lot – 31+00.53 to 32+46.34
	34+72.19	Rt		606.7				
	36+79.71	Lt		568.1				
	37+58.25	Lt		396.1				
	37+81.51	Rt		734.0				
	39+96.04	Rt		661.7				
	40+50.83	Lt		386.1				
	41+04.65	Rt			41.9	41.9		Alley
	41+15.51	Lt		712.0				
	41+78.14	Lt		703.7				
	Totals			11,230.6	400.1	400.1	176.4	

Side Street Pavement

Location	Station	Side	Concrete Pavement (VG) 8" (Reinf.) (SY)	Crushed Rock Base 7", Reinforced (SY)	Concrete Curb Mono Edge (6" & 1–1/2") (LF)	Concrete Pavement 6" (Reinf.) (SY)	Crushed Rock Base 5", Reinforced (SY)	Inlet Hookup (SY)	Inlet Hookup (EA)
Mathewson	6+41.67	Lt	89.6	96.4	60.9			27.7	
	6+45.69	Rt	153.0	162.7	87.1				
Pennsylvania	13+00.62	Rt	168.3	178.6	92.7				
Hydraulic	16+20.75	Lt	168.8	179.1	93.1	33.2	33.2		2
	16+20.75	Rt	167.0	177.3	92.4				
Kansas	18+40.99	Lt	170.6	181.0	93.7				
	18+40.99	Rt	167.2	177.0	88.2				
Minneapolis	22+17.18	Lt	170.3	180.6	93.3				
	22+10.70	Rt	170.5	180.9	93.6				
Minnesota	25+86.60	Lt	169.5	179.9	93.5				
	25+80.75	Rt	171.9	182.4	94.8				
Piat	29+46.11	Lt	169.0	179.4	93.2				
	29+46.11	Rt	170.8	181.2	93.8				
Ash	32+77.77	Lt	172.3	182.7	93.3				
	32+77.96	Rt	169.8	180.1	92.9				
Madison	36+08.99	Lt	169.0	179.9	98.2				
	36+08.99	Rt	172.5	183.0	94.3				
Spruce	39+40.01	Lt	170.8	181.2	93.4				
	39+40.01	Rt	171.6	182.1	94.6				
		Totals	3,132.5	3,325.5	1,737.0	33.2	33.2	27.7	2

Earthwork

Location	Excavation Items				Compaction	
	Pavement &/or Curb Removed (SY)	Sidewalk, Drive, &/or Pkg Lot Removed (SY)	Excavation (CY)	VMF	Fill, Compacted (90% Density) (CY)	Fill, Compacted (95% Density) (CY)
3+09.41 to 42+23.07	20,393.5	4,142.5	11,003	1.0	10	
Totals	20,393.5	4,142.5	11,003			

BAUGHMAN COMPANY
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CITY OF WICHITA
17TH STREET

SUMMARY OF QUANTITIES 2

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

DESIGN: BDC DRAWN: TMS

DATE: August 5, 2025

SHEET 52 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\QUANTITIES RECAP.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	53	148

Concrete Curb and Gutter								
Location	Station	Station	Side	Concrete C&G, Type 1 (6" & 1–1/2") (LF)	Concrete C&G, Type 3 (8" & 1–1/2") (LF)	Crushed Rock Base 8", Reinforced (SY)	Inlet Hookup (EA)	Remarks
17th St	3+09.35	6+00.58	Rt	291.2		113.2		
	3+09.47	6+09.91	Lt	300.4		116.8		
	5+92.08		Rt				1	
	5+92.25		Lt				1	
	6+73.92	10+52.21	Lt	378.3		147.1		
	6+80.30	10+52.21	Rt	371.9		144.6		
	7+07.60		Lt				1	
	7+07.60		Rt				1	
	8+58.34		Lt				1	
	8+58.34		Rt				1	
	10+43.54		Lt				1	
	10+43.54		Rt				1	
	10+52.21	15+76.04	Lt	523.8		203.7		
	10+52.21	12.55.45	Rt	203.2		79.0		
	13+45.51	15+75.50	Rt	230.0		89.4		
	13+63.17		Lt				1	
	13+63.17		Rt				1	
	15+63.85		Lt				1	
	15+63.85		Rt				1	
	16+65.11	17+95.01	Rt	129.9		50.5		
	16+66.23	18+02.11	Lt	135.9		52.9		
	16+76.77		Rt				1	
	16+76.78		Lt				1	
	17+87.85		Rt				1	
	17+94.94		Lt				1	
	18+84.99	21+65.30	Rt	280.3		109.0		
	18+92.16		Rt				1	
	18+92.33	21+72.56	Lt	280.2		109.0		
	18+99.50		Lt				1	
	21+58.13		Rt				1	
	21+65.40		Lt				1	
	22+55.51	25+35.06	Rt	279.5		108.7		
	22+62.68		Rt				1	
	22+62.84	25+42.20	Lt	279.3		108.6		
	22+70.00		Lt				1	
	25+27.89		Rt				1	
	25+35.03		Lt				1	
	26+32.27		Rt				1	
	26+25.10	29+00.44	Rt	275.3		107.1		
	26+32.20	29+00.99	Lt	268.7		104.5		
	26+39.37		Lt					
	28+93.27		Rt				1	
	28+93.83		Lt				1	
	29+97.79		Rt				1	
	29+98.17		Lt				1	
	29+90.63	32+31.06	Rt	240.4		93.5		
	29+91.00	32+33.02	Lt	242.0		94.1		
	32+22.40		Rt				1	
	32+23.73		Lt				1	
	33+29.12		Lt				1	
	33+29.62		Rt				1	
	33+22.45	35+63.19	Rt	240.7		93.6		
	33+23.46	35+54.24	Lt	240.8		93.6		
	36+59.89		Lt				1	
	36+53.63	38+94.45	Rt	240.8		93.6		
	36+54.22	38+95.09	LT	240.8		93.6		
	36+60.80		Rt				1	
	38+87.28		Rt				1	
	38+89.42		Lt				1	
	39+84.49	42+23.47	Rt	238.9		92.9		
	39+85.49	42+22.66	Lt	237.1		92.2		
	42+15.40		Lt				1	
	42+16.22		Rt				1	
17th St		Totals		6,149.4		2,391.4	40	

Adjustment of Manholes (MH Adjusted w/ New Ring and Cover)				
Station	Offset	Quantity	Unit	Remarks
4+81.53	29.91 Lt	1	EA	
6+80.68	29.40 Lt	1	EA	
8+84.27	29.34 Lt	1	EA	
9+84.96	29.38 Lt	1	EA	
12+83.98	28.16 Lt	1	EA	
24+02.09	42.42 Lt	1	EA	
27+68.79	42.18 Lt	1	EA	
29+17.84	0.79 Lt	1	EA	
29+19.94	41.77 Lt	1	EA	
37+75.30	48.75 Rt	1	EA	
41+04.99	0.05 Lt	1	EA	
	Totals	11		

Adjustment of Manholes (MH Adjusted, SS)				
Station	Offset	Quantity	Unit	Remarks
50+96.20	9.22 Rt	1	EA	
54+25.93	10.24 Rt	1	EA	
65+85.46	7.07 Lt	1	EA	
67+41.04	7.86 Lt	1	EA	
	Totals	4		

Adjustment of Manholes (MH Adjusted, SWS)				
Station	Offset	Quantity	Unit	Remarks
4+47.76	24.53 Lt	1	EA	
5+05.69	9.13 Lt	1	EA	
15+88.18	6.86 Lt	1	EA	
	Totals	3		

Adjustment of Valve Box (Water)				
Station	Offset	Quantity	Unit	Remarks
6+65.06	32.56 Rt	1	EA	
8+92.42	26.53 Rt	1	EA	
12+67.86	32.04 Rt	1	EA	
12+79.15	38.66 Rt	1	EA	
16+01.57	29.44 Rt	1	EA	
16+00.98	26.56 Lt	1	EA	
16+03.10	31.63 Lt	1	EA	
22+36.31	38.59 Rt	1	EA	
22+46.65	31.34 Rt	1	EA	
36+33.11	41.84 Lt	1	EA	
39+16.62	43.85 Lt	1	EA	
65+58.16	3.85 Lt	1	EA	
	Totals	12	EA	

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CITY OF WICHITA
17TH STREET

SUMMARY OF QUANTITIES 3

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

DESIGN: BDC DRAWN: TMS

DATE: August 5, 2025

SHEET 53 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\QUANTITIES RECAP.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	54	148

Sidewalk Construction

Location	Station	Station	Side	Concrete Sidewalk 4" (SF)	Concrete Sidewalk 6" (SF)	Sidewalk Thickened Edge (LF)	Wheelchair Ramp w/Detectable Warnings (EA)	Concrete Protection Curb (LF)	Remarks
17th St	3+74.56	4+10.71	Rt	217.0					
	3+76.35	5+00.13	Lt	887.2		28.4			
	4+22.64	6+25.36	Rt	1,206.7			1		
	5+36.13	6+23.99	Lt	508.8		50.4	1		
	6+59.84	9+08.77	Lt	1,539.6		194.2	1		
	6+61.74	6+76.93	Rt	71.8			1		
	6+88.93	7+26.28	Rt	224.1					
	7+40.28	7+77.80	Rt	225.1					
	7+89.80	8+28.15	Rt	224.1					
	8+39.15	8+77.54	Rt	230.3					
	8+89.54	9+26.82	Rt	223.7					
	9+38.82	9+99.95	Rt	366.8					
	9+50.77	11+29.58	Lt	1,070.4		161.1			
	10+23.95	10+63.06	Rt	234.6					
	10+87.06	12+73.28	Rt	1,304.0			1		
	11+61.59	12+74.61	Lt	680.9		113.0			
	13+27.67	16+03.57	Rt	1,393.1		165.3	3	242.1	
	13+06.61	16+04.08	Lt	2,143.1		213.2	2	205.1	
	16+37.03	17+11.05	Rt	525.9			2		
	16+38.13	18+30.20	Lt	1,053.8			3		
	17+35.05	18+23.08	Rt	475.8			1		
	18+56.92	20+20.65	Rt	915.9			1		
	18+64.21	20+22.36	Lt	917.6			1		
	20+34.65	21+94.52	Rt	949.5			2		
	20+36.36	22+00.67	Lt	917.6			2		
	22+26.29	23+86.29	Rt	914.9			1		
	22+34.73	23+61.43	Lt	708.4			1		
	23+81.43	23+93.99	Lt	77.3					
	24+04.26	25+64.29	Rt	936.5			2		
	24+07.99	25+70.60	Lt	1,034.7			2		
	25+95.88	27+55.43	Rt	985.3			2		
	26+03.80	27+61.80	Lt	1,034.5			2		
	27+73.80	29+29.39	Lt	946.2			2		
	27+75.43	29+29.66	Rt	903.7			2		
	29+61.40	31+05.53	Rt	969.3			2		
	29+62.60	32+61.42	Lt	1,760.3			3	37.7	
	31+17.53	32+61.29	Rt	817.6			1		
	32+93.23	34+62.19	Rt	968.8			1		
	32+95.06	35+84.19	Lt	1,692.4			3		
	34+82.19	35+92.41	Rt	656.0			2		
	36+24.40	37+69.01	Rt	822.7			1		
	36+25.83	36+69.71	Lt	212.6			1		
	36+89.71	37+52.25	Lt	375.3					
	37+64.25	39+24.32	Lt	990.5			2		
	37+94.01	39+23.67	Rt	750.6			2		
	39+55.27	39+84.54	Rt	154.2			2		
	39+56.26	40+44.83	Lt	568.1			2		
	40+07.53	40+96.29	Rt	532.5					
	40+56.83	41+00.51	Lt	262.1					
	45+81.09		Lt				1		
	49+52.14	51+08.26	Lt	771.2			3		
	49+50.51		Rt	44.2			1		
	62+13.75		Lt	50.7			1		
	62+09.27		Rt	46.6			1		
17th St			Totals	38,494.6		925.6	65	484.9	

Recapitulation of Quantities

Bid Item	Quantity	Unit
Mobilization	1	LS
Removal of Existing Structures	1	LS
Site Clearing	1	LS
Site Restoration	1	LS
Transportation Salvaged Material	1	LS
Pipe, Connect to Existing	1	LS
Cap Monitoring Wells	3	EA
AC Pavement, Temporary (Utility Patch)	10	SY
AC Pavement, Temporary (Phase Shift)	10	SY
AC Pavement, Temporary (Widening)	10	SY
Traffic Signal Controller	2	EA
Fill, Compacted (95% Density)	10	CY
Fill, Sand (Flushed & Vibrated)	32	LF
Excavation	10,951	CY
Concrete Protection Curb	485	LF
Fence Removed (Chain Link)	330	LF
Fence Removed (Wood Privacy)	93	LF
Mailbox, Removed and Reset	1	EA
Pavement Removed	20,376	SY
Sidewalk, Drive, &/or Pkg Lot Removed	4,151	SY
Concrete Curb & Gutter (Type 1)	6,150	LF
Concrete Curb & Gutter (Type 3)	120	LF
Concrete Curb, Mono Edge (6" & 1–1/2")	1,737	LF
Concrete Driveway, 8"	11,231	SF
Concrete Ramp Nose Section (Median)	2	EA
Stamped Concrete Median	42	SY
Concrete Sidewalk 4"	38,495	SF
Sidewalk Thickened Edge	926	LF
Wheelchair Ramp w/ Detectable Warnings	67	EA
Crushed Rock Base 5", Reinforced	33	SY
Crushed Rock Base 6", Reinforced	400	SY
Crushed Rock Base 7", Reinforced	3,326	SY
Crushed Rock Base 8", Reinforced	21,535	SY
Crushed Rock Hookup	28	SY
Transitional Milling	108	SY
AC Pavement 5"	177	SY
AC Pavement 7" (5" Bit Base)	19,043	SY
Concrete Pavement 6" (Reinf.)	33	SY
Concrete Pavement 7" (Reinf.)	400	SY
Concrete Pavement (VG) 8" (Reinf)	3,133	SY
HMA Surface (Ultrathin Bonded)(Type A)(PG 70–28)	479	Tons
Emulsified Asphalt (Emulsion Bonding Liquid)	13	Tons
Pipe Abandoned in Place	908	LF
Pipe, SWS 18"	913	LF
Pipe, SWS, HERCP (14"x23")	99	LF
Pipe, SWS 30"	37	LF
Inlet Hookup	40	EA
Inlet Underdrain	730	EA
Inlet, Curb (Type 1)	33	EA
Inlet, Curb (Type 2)	3	EA
Inlet, Curb (Type 2) Special	4	EA
MH Adjusted w/New Ring and Cover	11	EA
MH Adjusted, SS	4	EA
MH Adjusted, SWS	3	EA
MH, Reinforced Concrete	18	EA
Valve Box Adjusted (Water)	12	EA
Signing, Elec. Portable Message (Each per Day)	40	DAY
Tree Removal (Small)(<15"D)	7	EA
Tree Removal (Large)(>15"D)	23	EA
Temporary Fence	765	LF

For Temp. Eros. and Pollution Control Quantities, See Sh. No. 74
For Seeding / Sodding / Landscape Quantities, See Sh. No. 89
For Signalization Quantities, See Sh. No. 91 & 94
For Marking Quantities, See Sh. No. 105
For Signing Quantities, See Sh. No. 107
For Traffic Control Quantities, See Sh. No. 112 & 115

BRENT CHESNUT LICENSED 23491 08/05/2025 KANSAS PROFESSIONAL ENGINEER

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CITY OF WICHITA
17TH STREET

SUMMARY OF QUANTITIES 4

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

DESIGN: BDC DRAWN: TMS

DATE: August 5, 2025

SHEET 54 OF 148

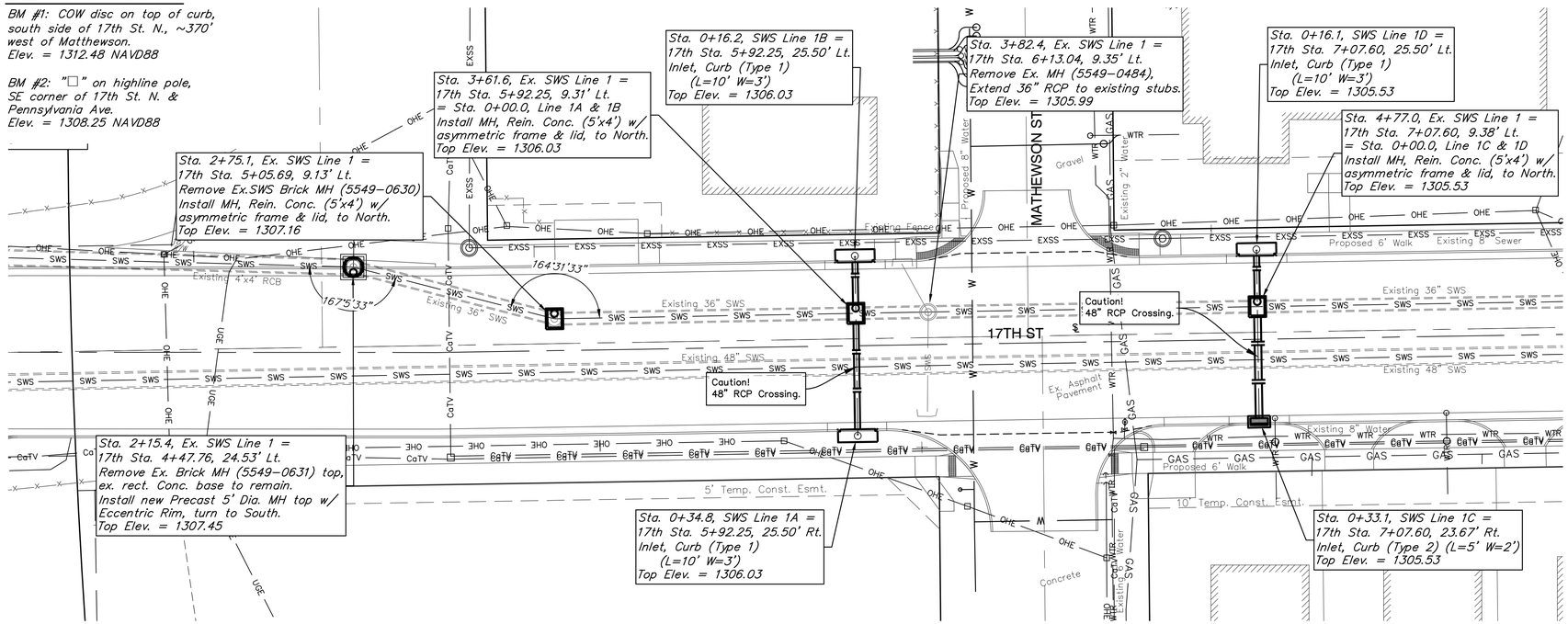
File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\QUANTITIES RECAP.dwg

BENCHMARKS:

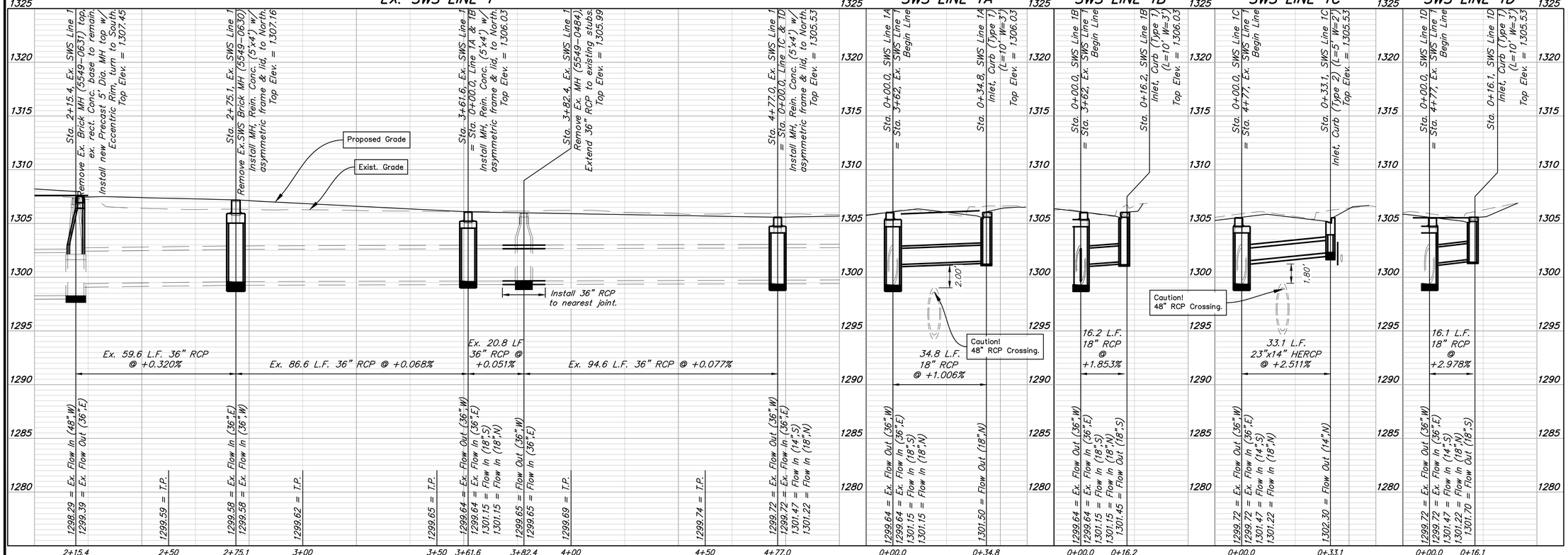
BM #1: COW disc on top of curb, south side of 17th St. N., ~370' west of Matthewson.
Elev. = 1312.48 NAVD88

BM #2: "□" on highline pole, SE corner of 17th St. N. & Pennsylvania Ave.
Elev. = 1308.25 NAVD88

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	55	148



Removal Note: The noted removal of structures are for clarification only. See demolition plans for Structure and pipe removal.



BRENT CHESNUT LICENSED 23419 08/05/2025 KANSAS PROFESSIONAL ENGINEER

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CITY OF WICHITA
17TH STREET

SWS 1A - 1D

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

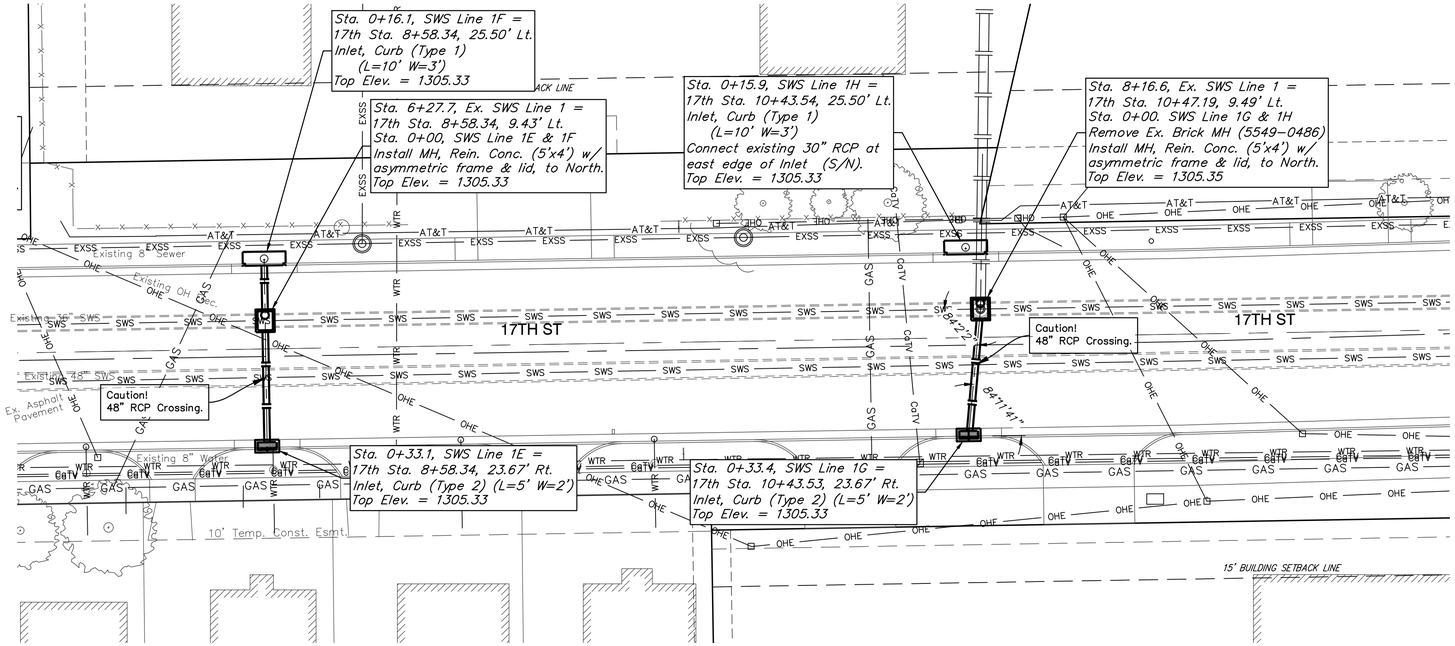
DESIGN: PSB DRAWN: TMS

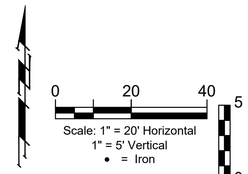
DATE: August 5, 2025

SHEET 55 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\SWS PLAN.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	56	148



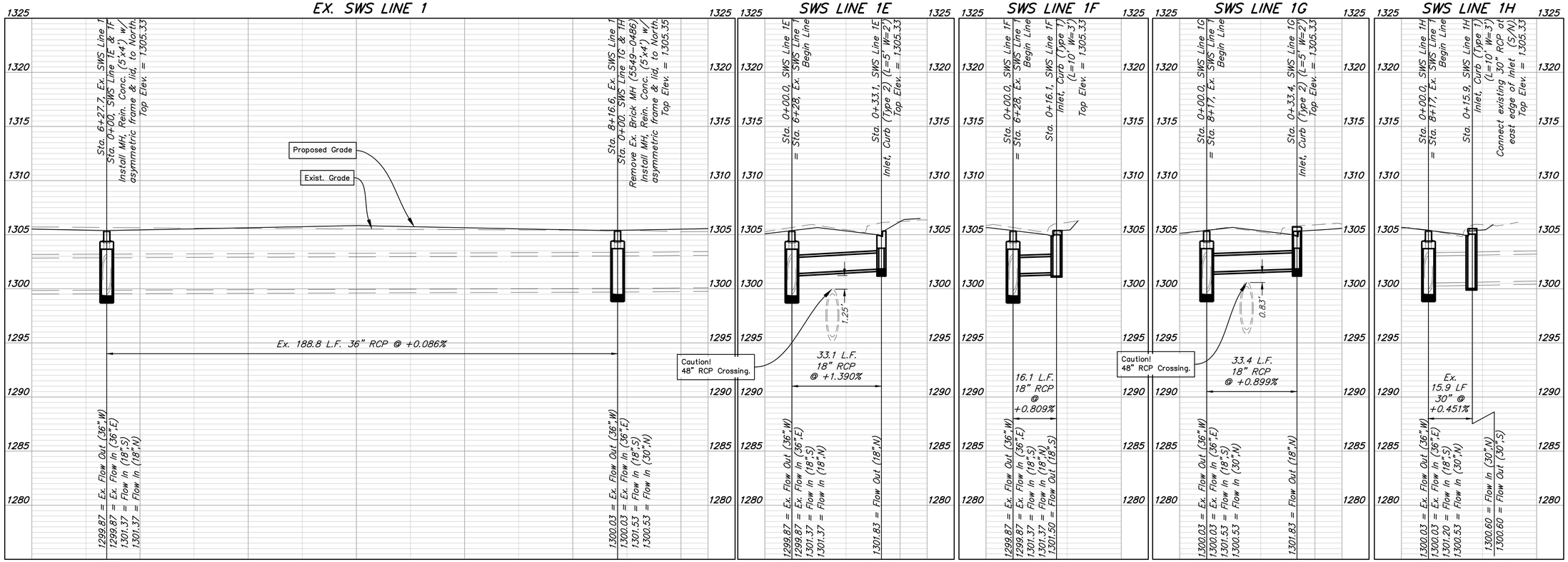


BENCHMARKS:

BM #1: COW disc on top of curb, south side of 17th St. N., ~370' west of Matthewson. Elev. = 1312.48 NAVD88

BM #2: "□" on highline pole, SE corner of 17th St. N. & Pennsylvania Ave. Elev. = 1308.25 NAVD88

Removal Note: The noted removal of structures are for clarification only. See demolition plans for Structure and pipe removal.



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CITY OF WICHITA
17TH STREET

SWS 1E - 1H

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

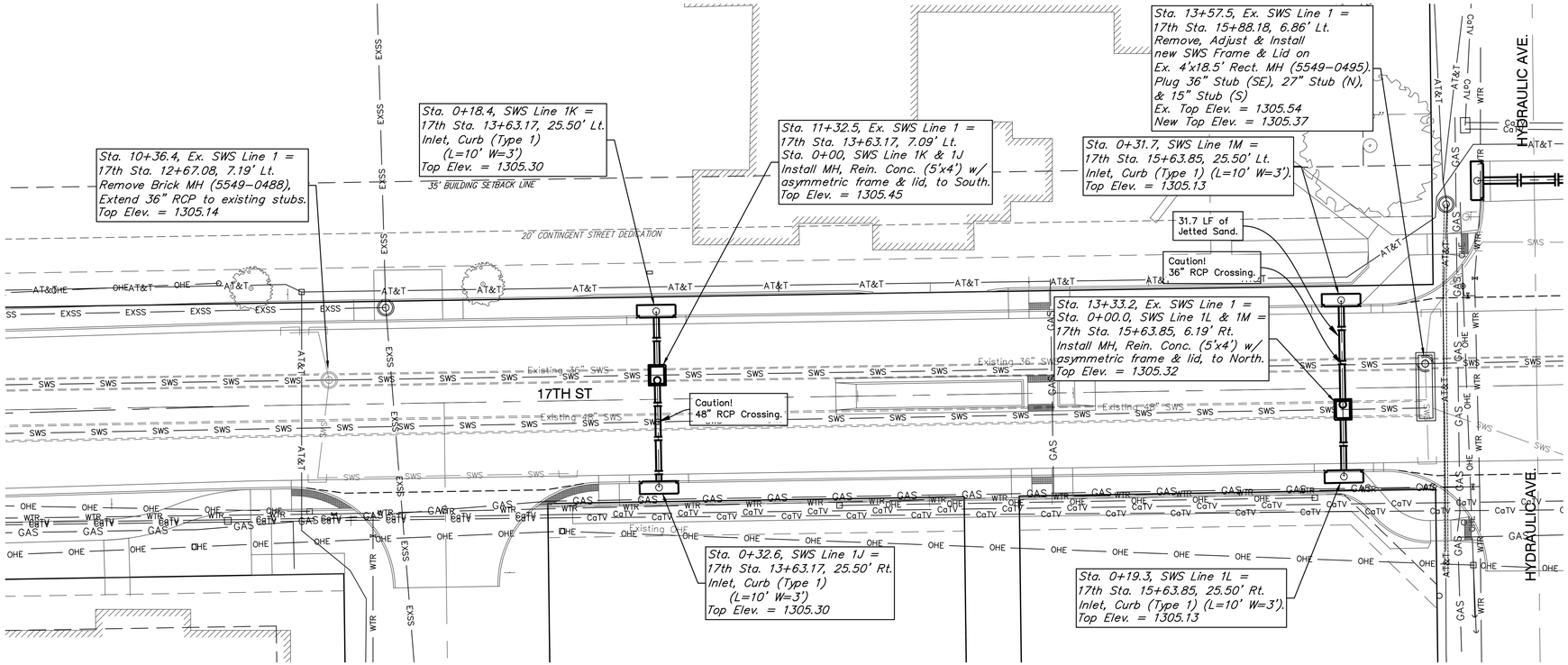
DESIGN: PSB DRAWN: TMS

DATE: August 5, 2025

SHEET 56 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\SWS PLAN.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	57	148



0 20 40

Scale: 1" = 20' Horizontal
1" = 5' Vertical
• = Iron

0 5

BENCHMARKS:

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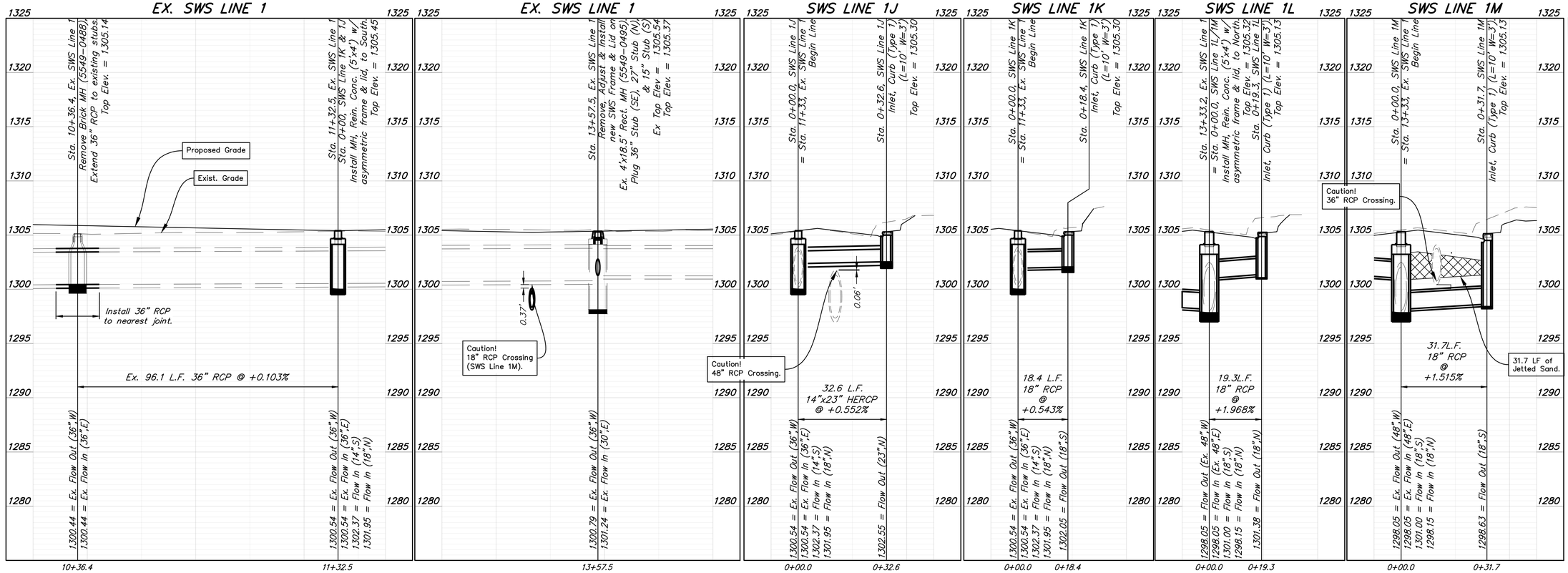

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CITY OF WICHITA
17TH STREET

SWS 1J - 1M

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

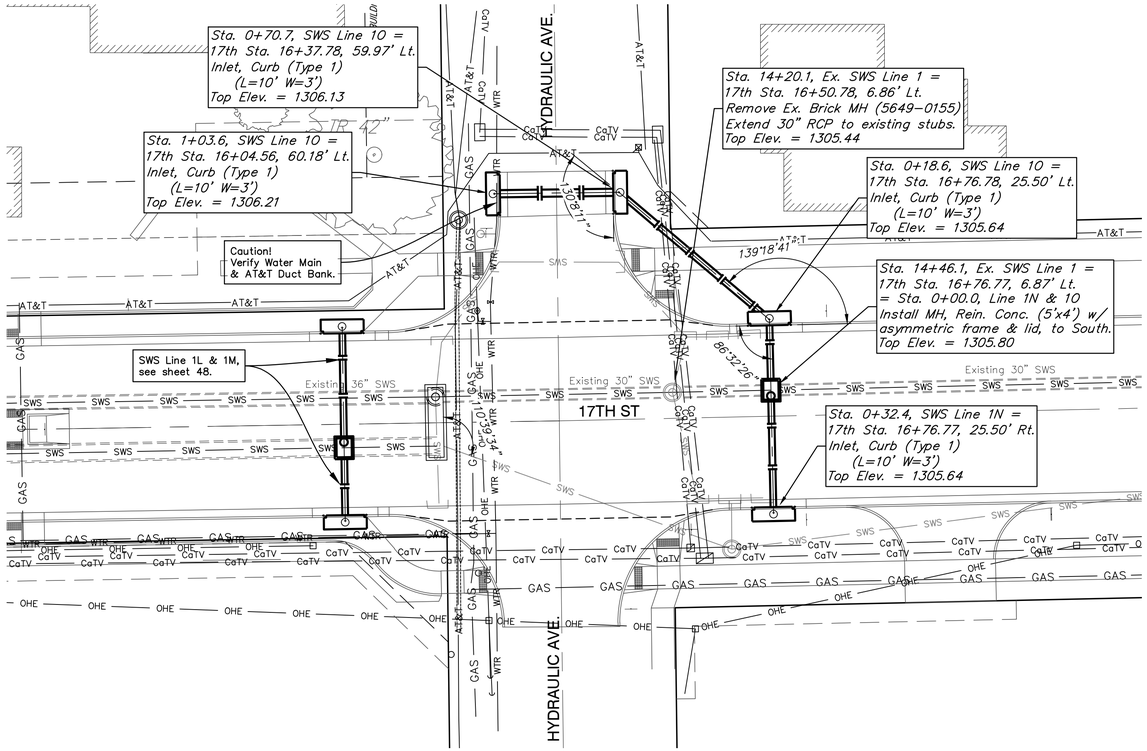
DESIGN: PSB DRAWN: TMS

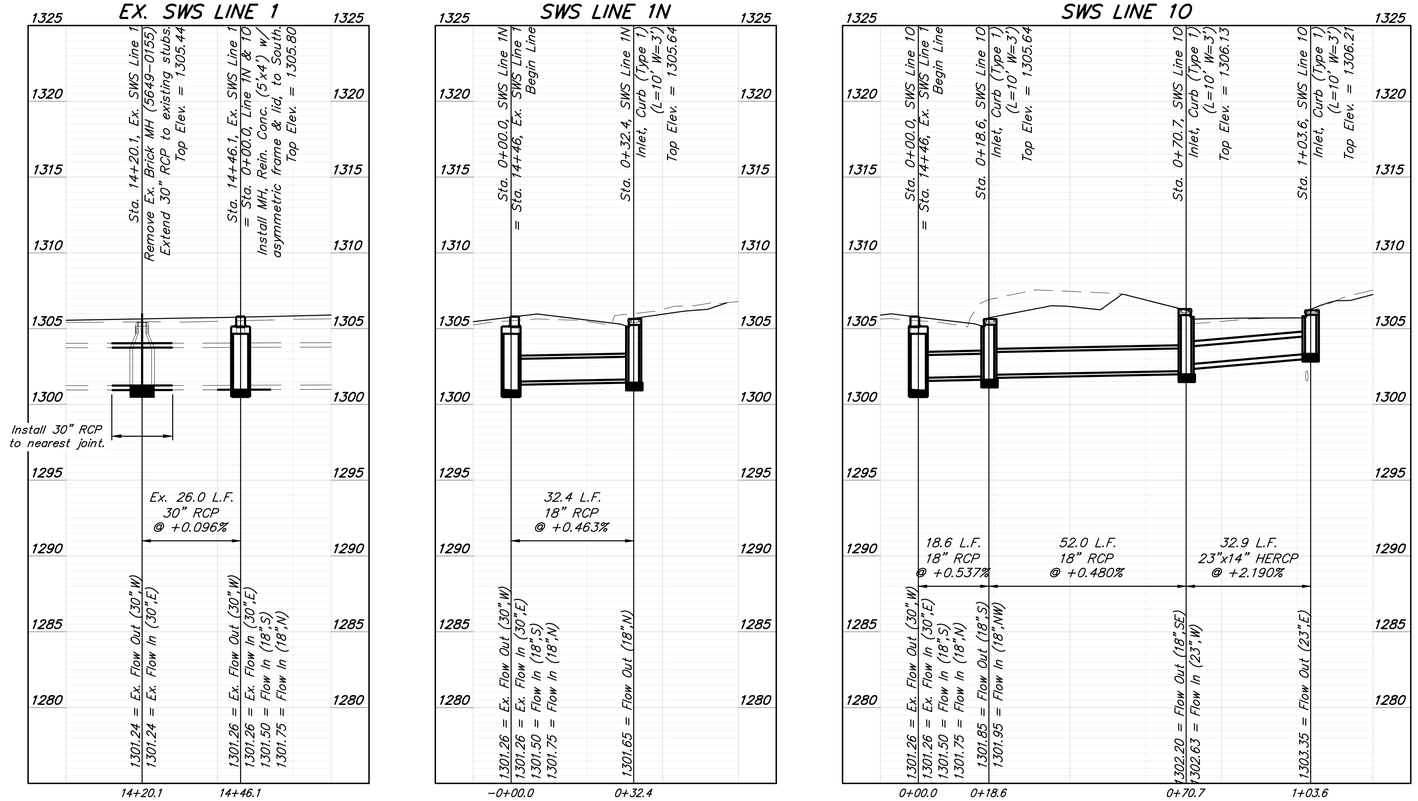
DATE: August 5, 2025

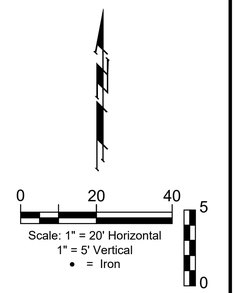
SHEET 57 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\SWS PLAN.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	58	148







BENCHMARKS:

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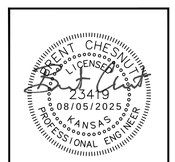
BM #2: "□" on highline pole, SE corner of 17th St. N. & Pennsylvania Ave. Elev. = 1308.25 NAVD88

<u>Removal Note:</u> The noted removal of structures are for clarification only. See demolition plans for Structure and pipe removal.



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CITY OF WICHITA
17TH STREET

SWS 1N,1O,1AH

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

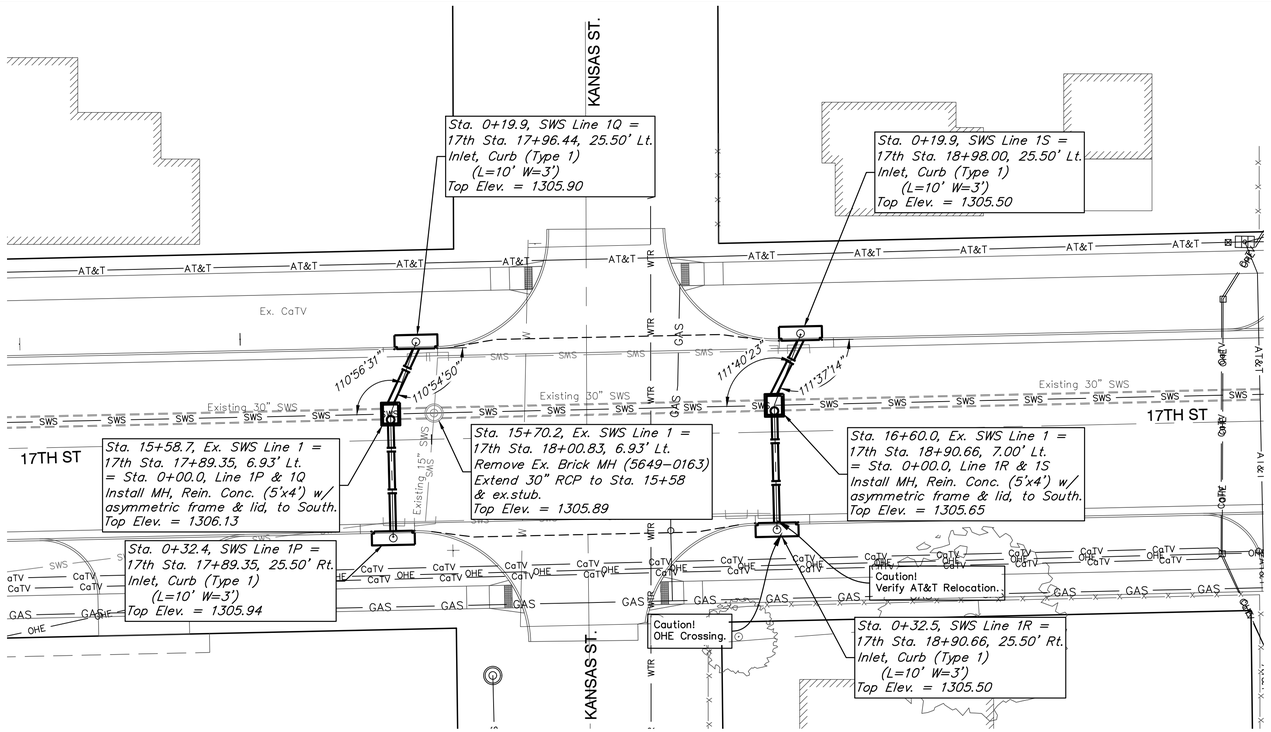
DESIGN: PSB DRAWN: TMS

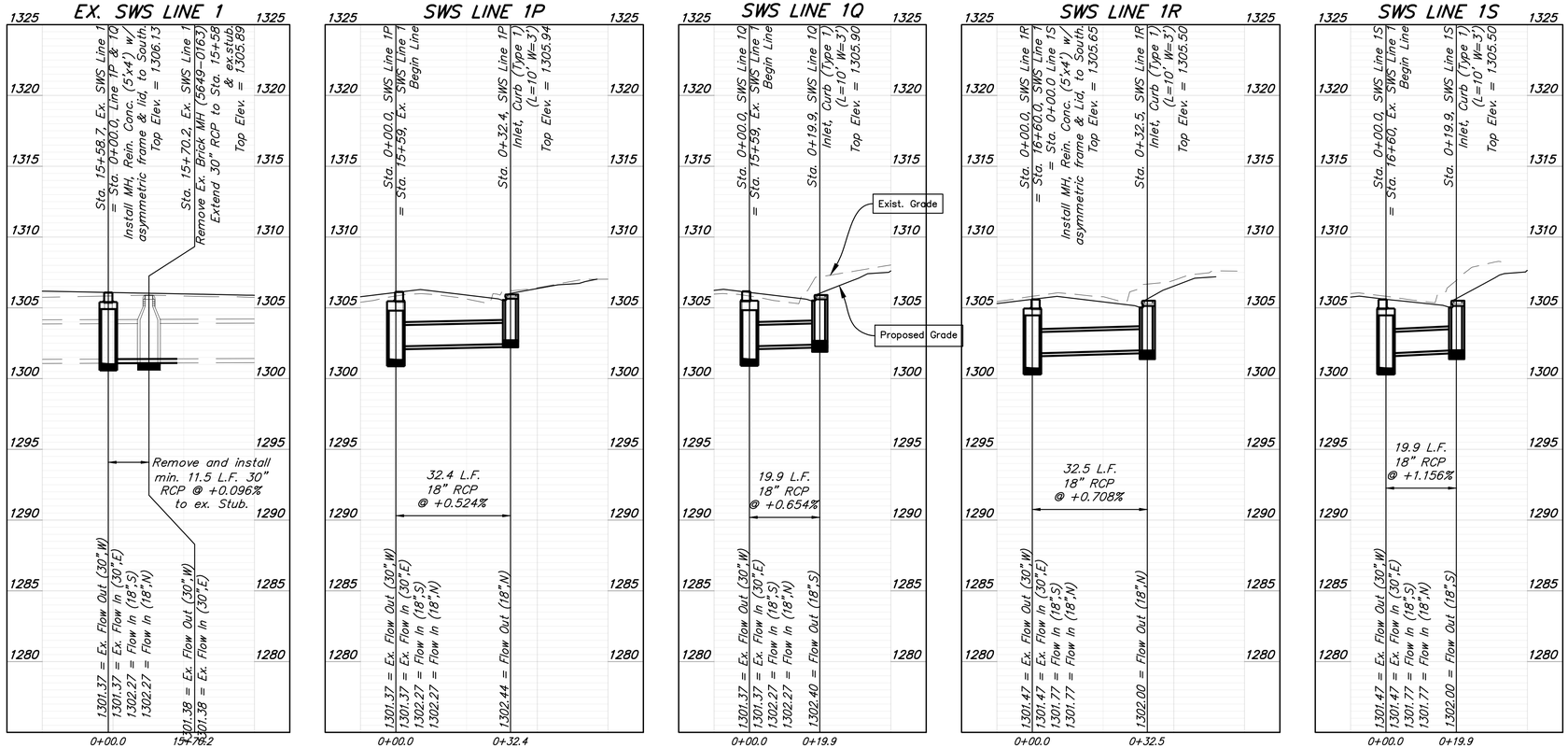
DATE: August 5, 2025

SHEET 58 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\SWS PLAN.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	59	148





20 0 20 5

Scale: 1" = 20' Horizontal
1" = 5' Vertical
• = Iron

BENCHMARKS:

BM #1: COW disc on top of curb, south side of 17th St. N., ~370' west of Matthewson. Elev. = 1312.48 NAVD88

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Removal Note: The noted removal of structures are for clarification only. See demolition plans for Structure and pipe removal.

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CITY OF WICHITA
17TH STREET

SWS 1P - 1S

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

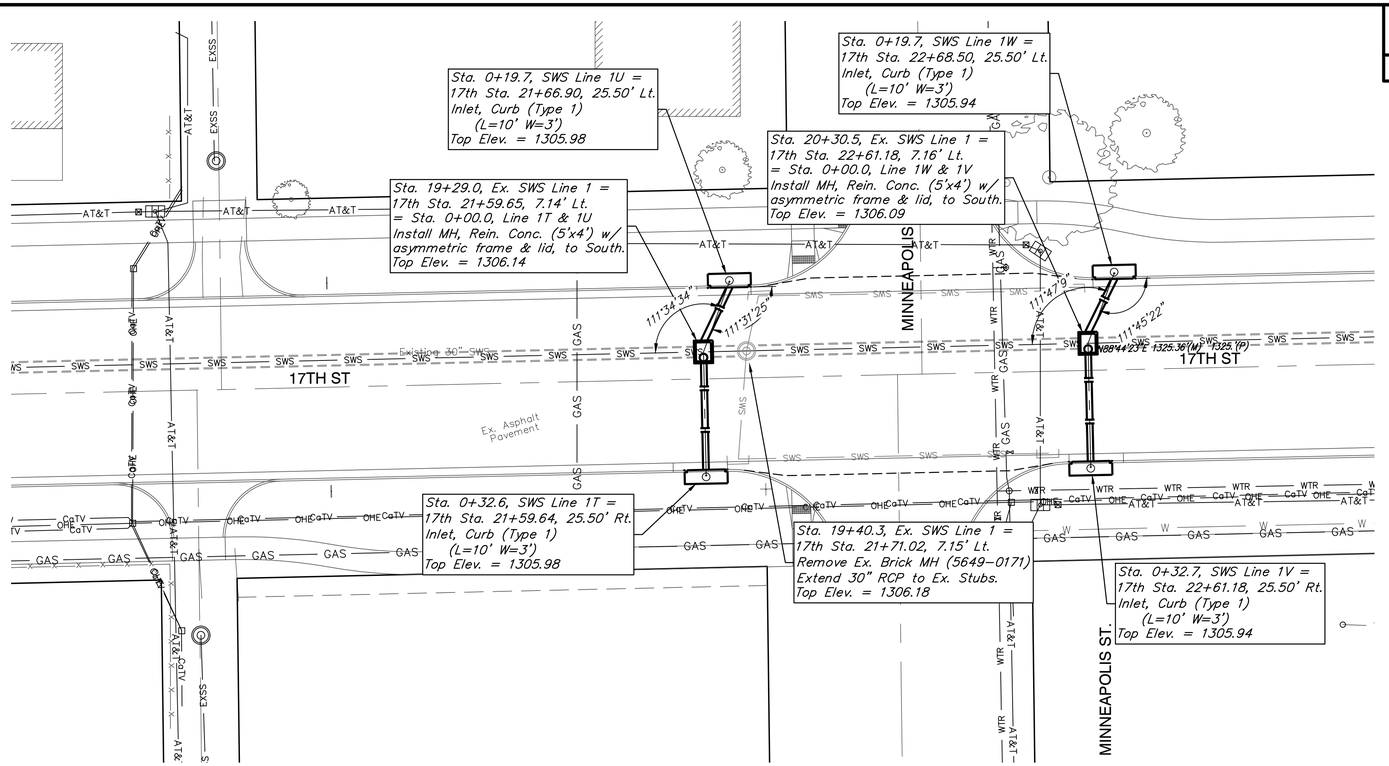
DESIGN: PSB DRAWN: TMS

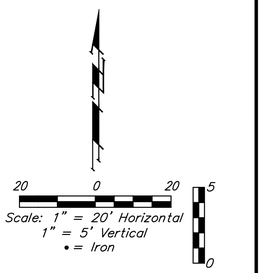
DATE: August 5, 2025

SHEET 59 OF 148

File: E:\Projects\Wichita 17th St. I-135 to Hillside (23-04-E484)\Engineering\DWG\SWS PLAN.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	60	148





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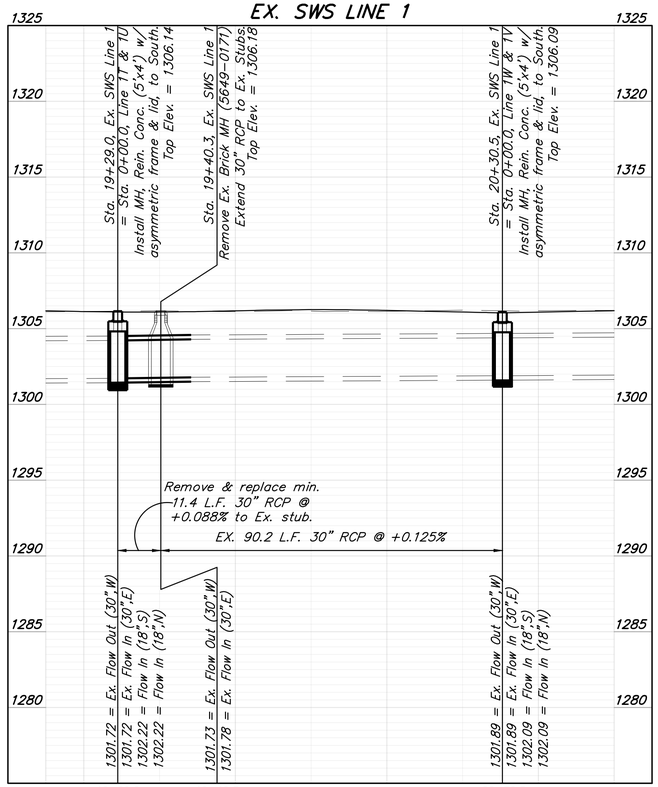

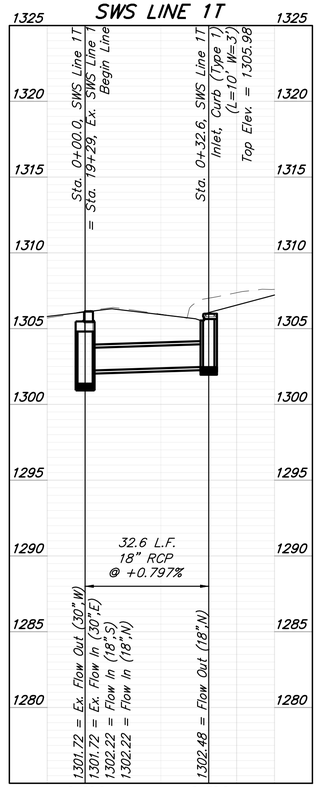

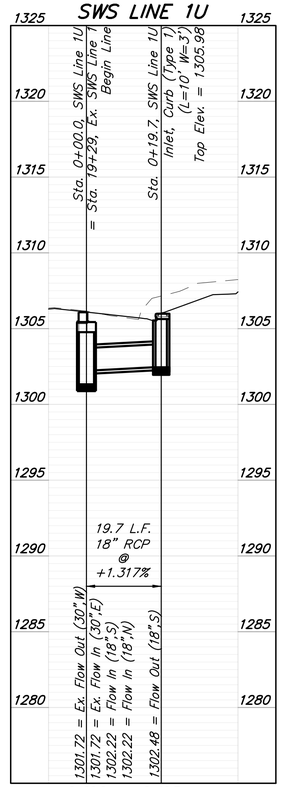

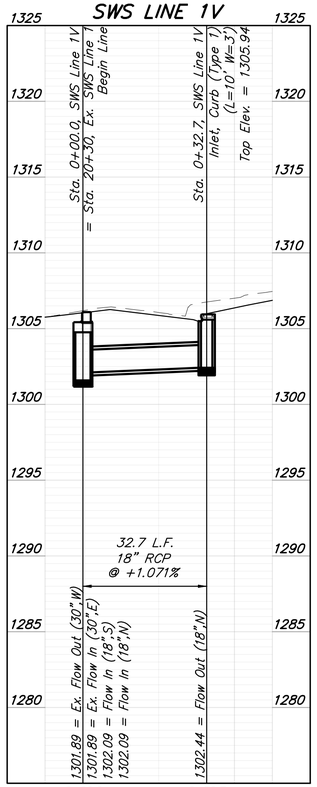

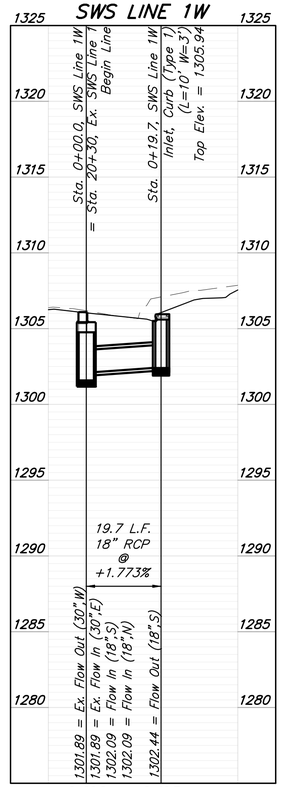

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BaughmanCo.com

CITY OF WICHITA
17TH STREET

SWS 1T - 1W

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

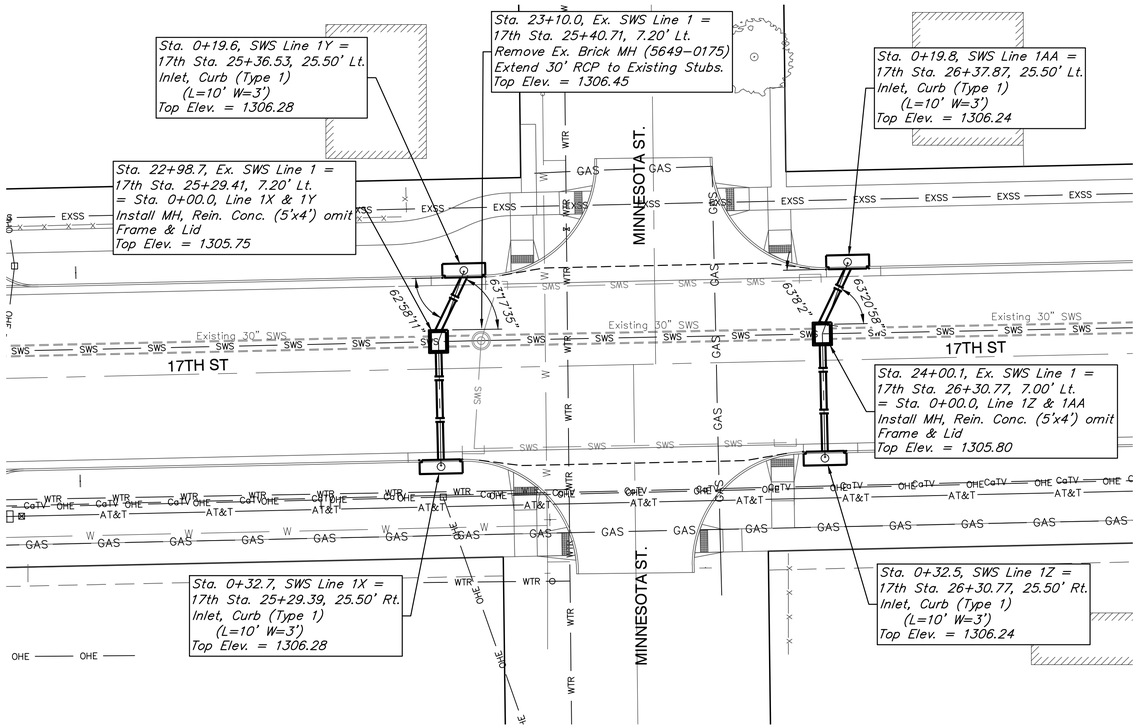
DESIGN: PSB DRAWN: TMS

DATE: August 5, 2025

SHEET 60 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\SWS PLAN.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	61	148



20 0 20 5

Scale: 1" = 20' Horizontal
1" = 5' Vertical
• = Iron

BENCHMARKS:

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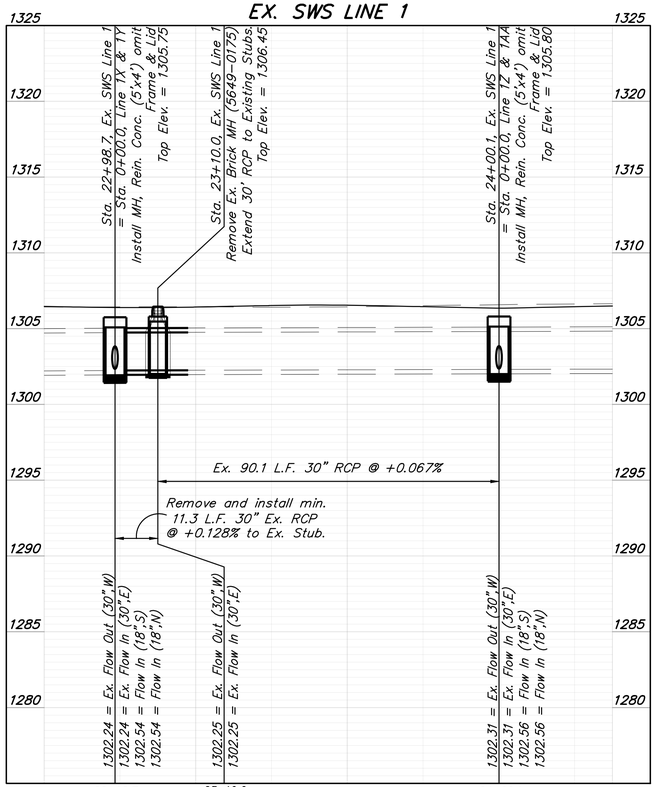
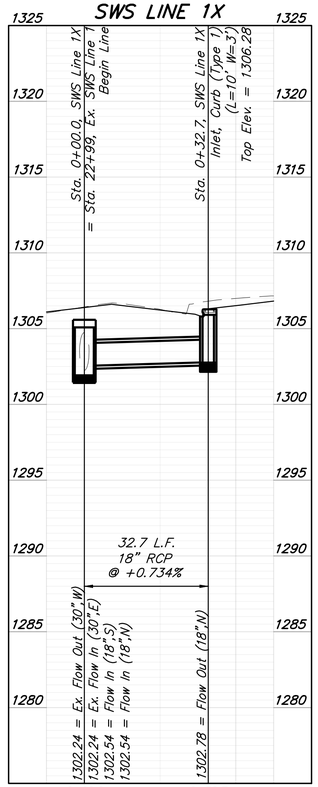
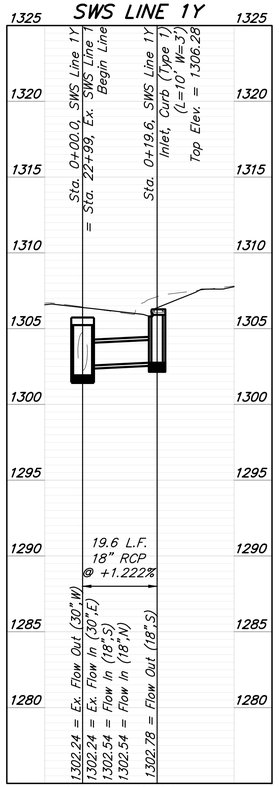
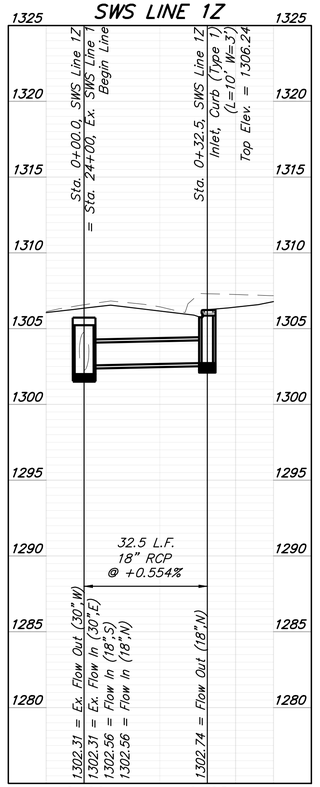
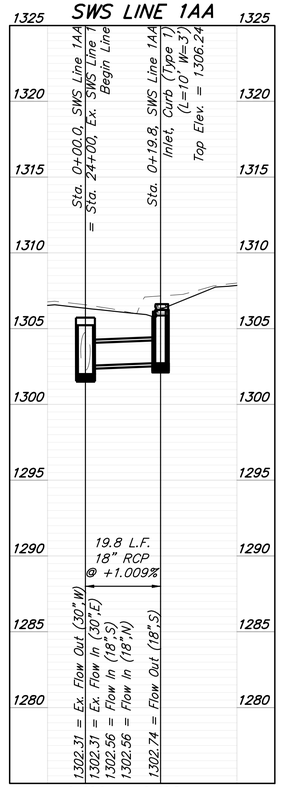
Removal Note: The noted removal of structures are for clarification only. See demolition plans for Structure and pipe removal.











BRENT CHESNUT
LICENSED
2349
08/05/2025
KANSAS
PROFESSIONAL ENGINEER

BAUGHMAN COMPANY
315 Ellis St.
Wichita, KS 67211
316-262-7271
BaughmanCo.com

CITY OF WICHITA
17TH STREET

SWS 1X - 1AA

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

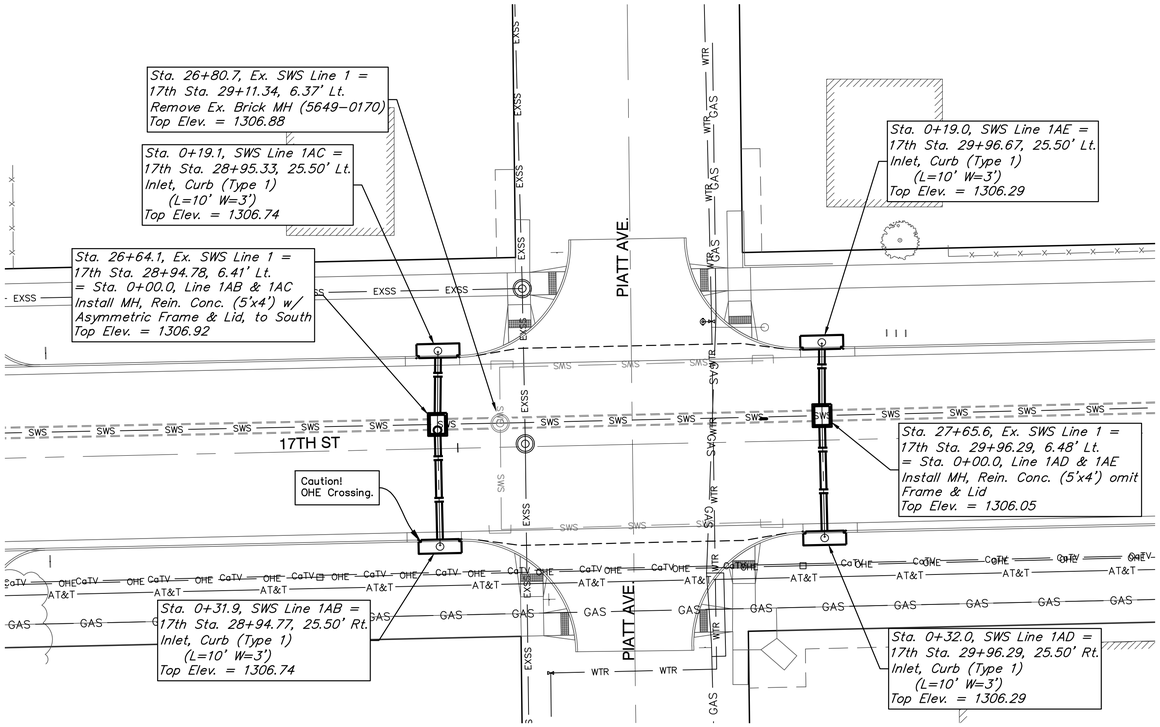
DESIGN: PSB DRAWN: TMS

DATE: August 5, 2025

SHEET 61 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\SWS PLAN.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	62	148



0 20 40

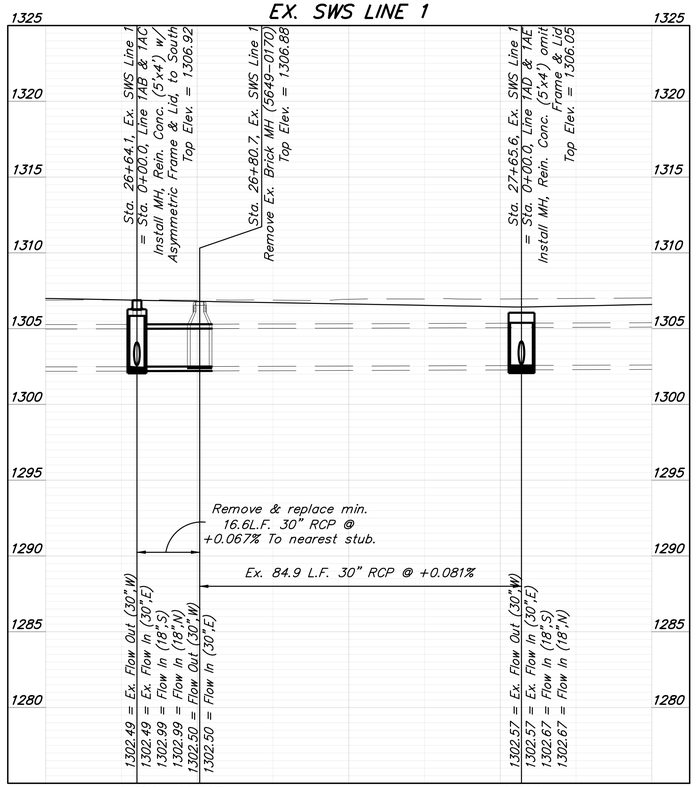
Scale: 1" = 20' Horizontal
1" = 5' Vertical
• = Iron

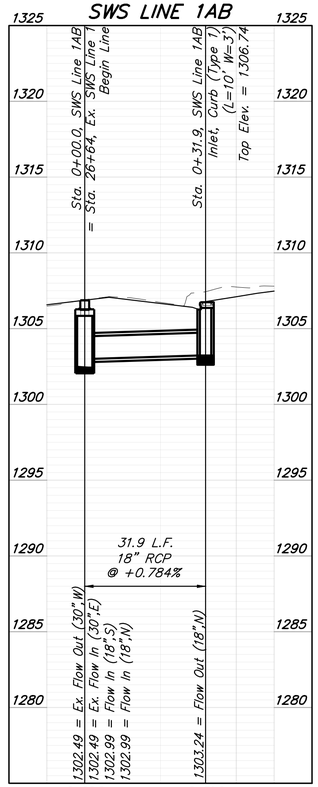
BENCHMARKS:

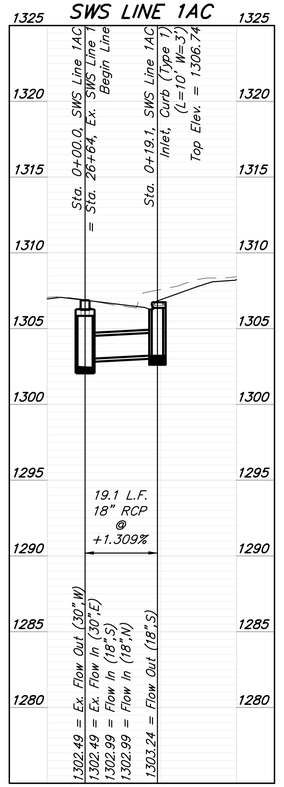
BM #1: COW disc on top of curb, south side of 17th St. N., ~370' west of Matthewson.
Elev. = 1312.48 NAVD88

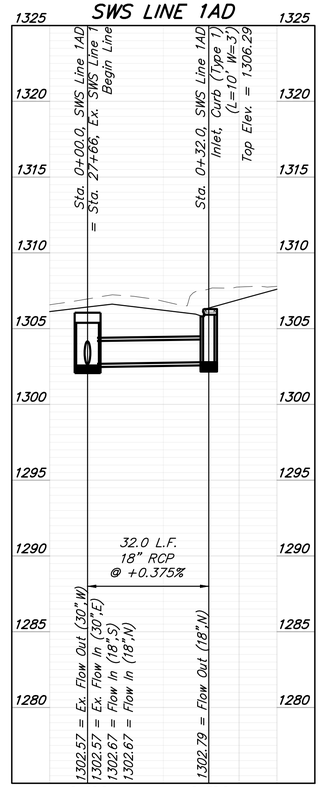
BM #2: "□" on highline pole, SE corner of 17th St. N. & Pennsylvania Ave.
Elev. = 1308.25 NAVD88

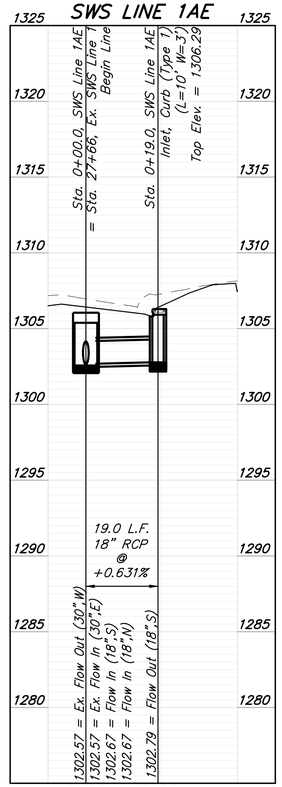
Removal Note: The noted removal of structures are for clarification only. See demolition plans for Structure and pipe removal.











BRENT CHESNUT
LICENSED
23419
08/05/2025
KANSAS
PROFESSIONAL ENGINEER

BAUGHMAN COMPANY
315 Ellis St.
Wichita, KS 67211
316-262-7271
BaughmanCo.com

CITY OF WICHITA
17TH STREET

SWS 1AB-1AE

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

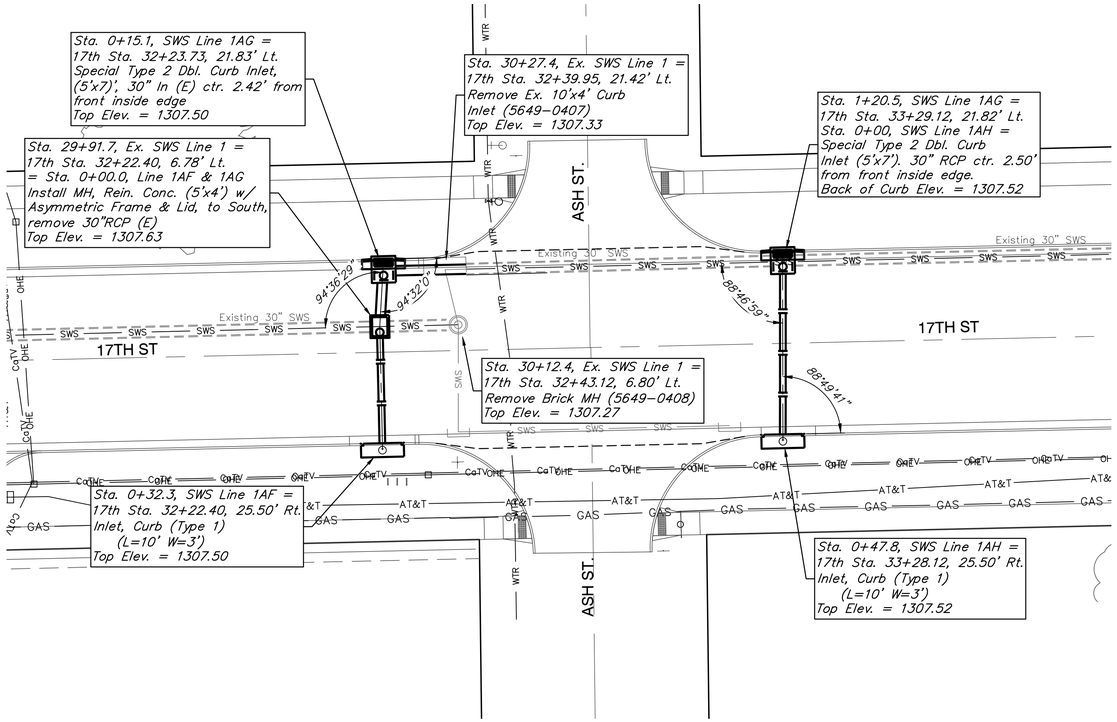
DESIGN: PSB DRAWN: TMS

DATE: August 5, 2025

SHEET 62 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\SWS PLAN.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	63	148



0 20 40

Scale: 1" = 20' Horizontal
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BENCHMARKS:

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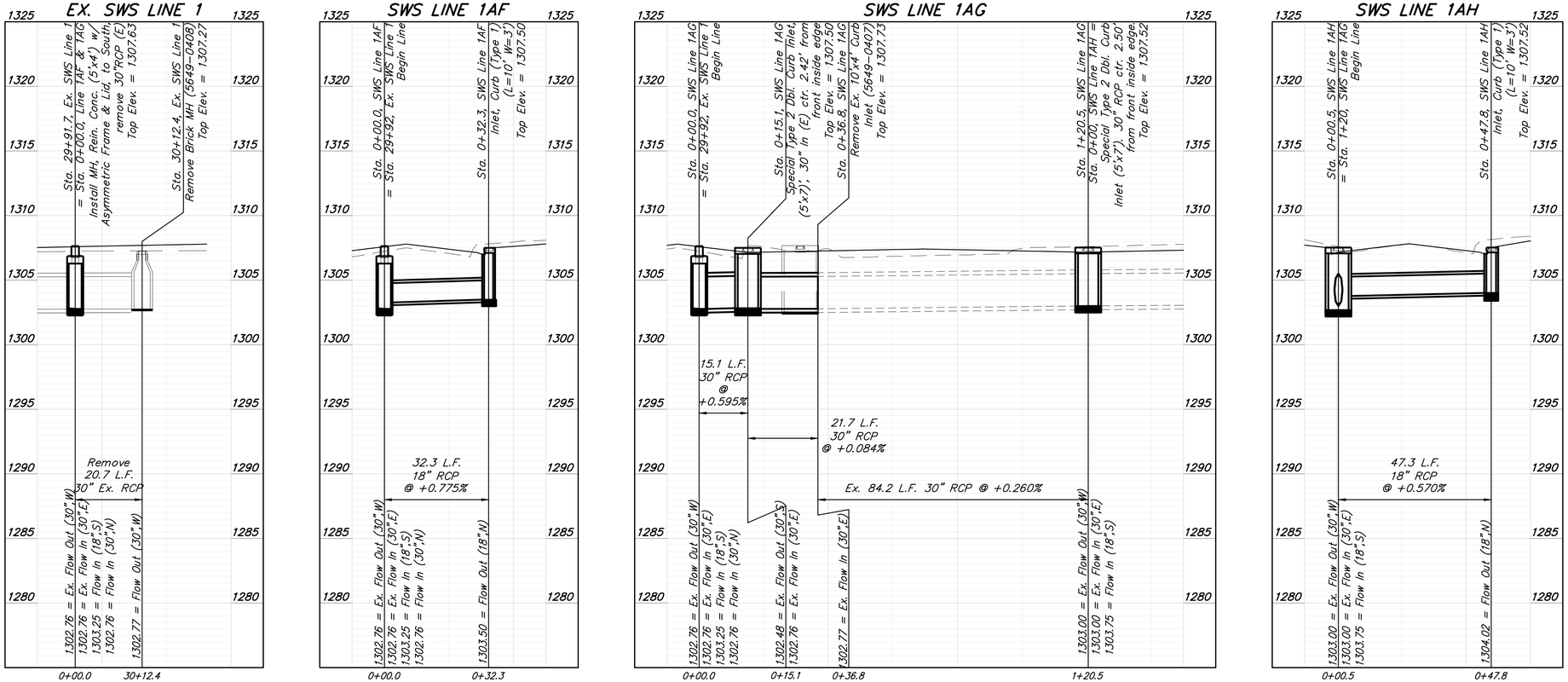
BM #2: "□" on highline pole, SE corner of 17th St. N. & Pennsylvania Ave. Elev. = 1308.25 NAVD88

Removal Note: The noted removal of structures are for clarification only. See demolition plans for Structure and pipe removal.



BAUGHMAN COMPANY
315 Ellis St.
Wichita, KS 67211
316-262-7271
BaughmanCo.com

CITY OF WICHITA
17TH STREET

SWS 1AF-1AH

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

DESIGN: PSB DRAWN: TMS

DATE: August 5, 2025

SHEET 63 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\SWS PLAN.dwg

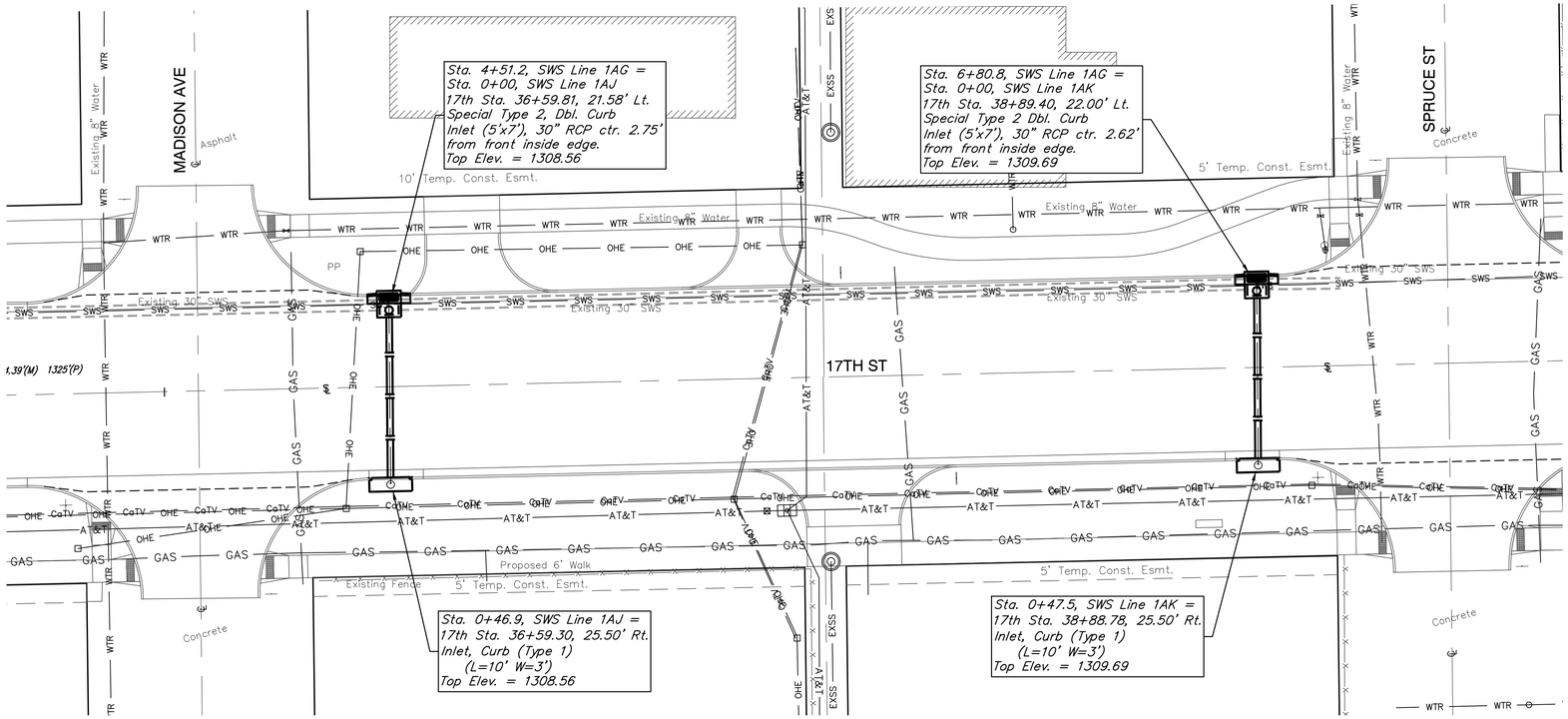
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	64	148

BENCHMARKS:

BM #3: Railroad spike on power pole, SE corner of 17th St. N. & Green St.
Elev. = 1318.81 NAVD88

BM #4: "□" on top of curb inlet, east end of return, SE corner of 17th St. N. & Estelle.
Elev. = 1324.66 NAVD88

BM #5: "□" on top of curb, north end of return, NE corner of 17th St. N. & Volutsia.
Elev. = 1331.33 NAVD88



Scale: 1" = 20' Horizontal
1" = 5' Vertical
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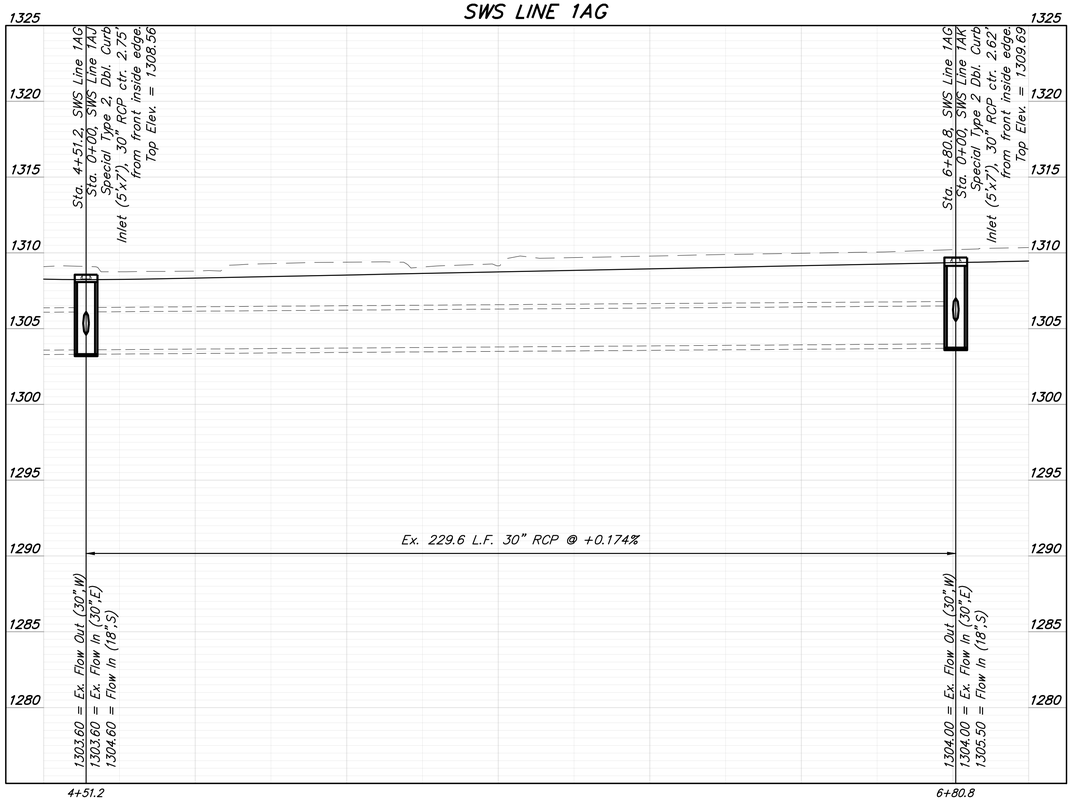
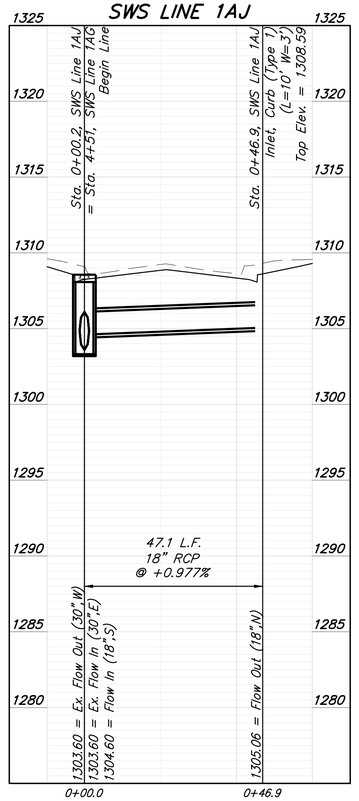
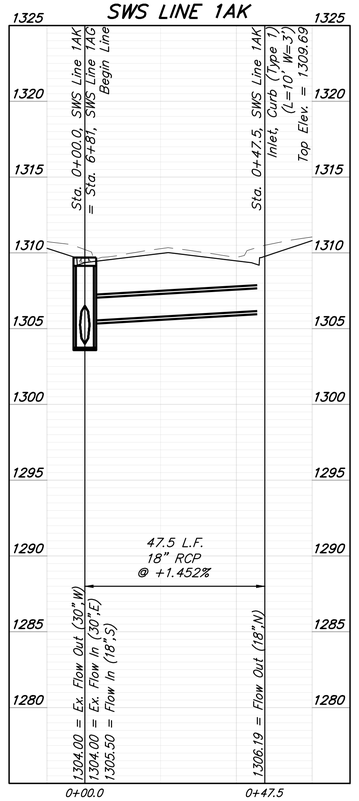
Removal Note: The noted removal of structures are for clarification only. See demolition plans for Structure and pipe removal.







BRENT CHESNUT
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BaughmanCo.com

CITY OF WICHITA
17TH STREET

SWS 1AJ-1AK

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

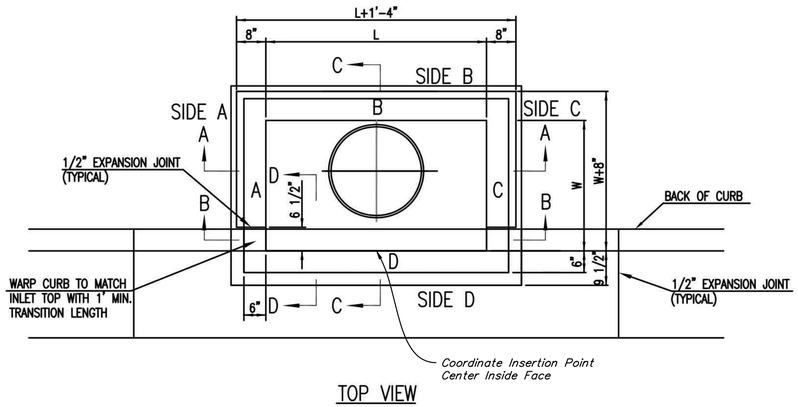
DESIGN: PSB DRAWN: TMS

DATE: August 5, 2025

SHEET 64 OF 148

File: E:\Projects\Wichita 17th St. I-135 to Hillside (23-04-E484)\Engineering\DWG\SWS PLAN.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	65	148



TOP VIEW

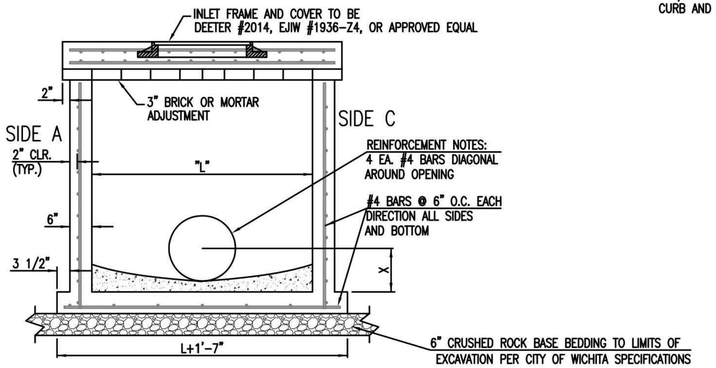
BAR SCHEDULE		
INLET OPENING	B1 BARS	SPACING
5'-0"	#4	4"
10'-0"	#6	3.5"

PRECAST CURB INLET WIDTHS				
W	PRE-CAST TOP SIZE			PIPE DIA.**
	WIDTH	LENGTH	TOP	
3'-0"	W+8"	L+1'-4"	7 1/2"	21" & SMALLER
4'-0"	W+8"	L+1'-4"	7 1/2"	24" & 30"
5'-0"	W+8"	L+1'-4"	7 1/2"	36" & 42"
6'-0"	W+8"	L+1'-4"	7 1/2"	48" & 54"
7'-0"	W+8"	L+1'-4"	7 1/2"	60" & 66"

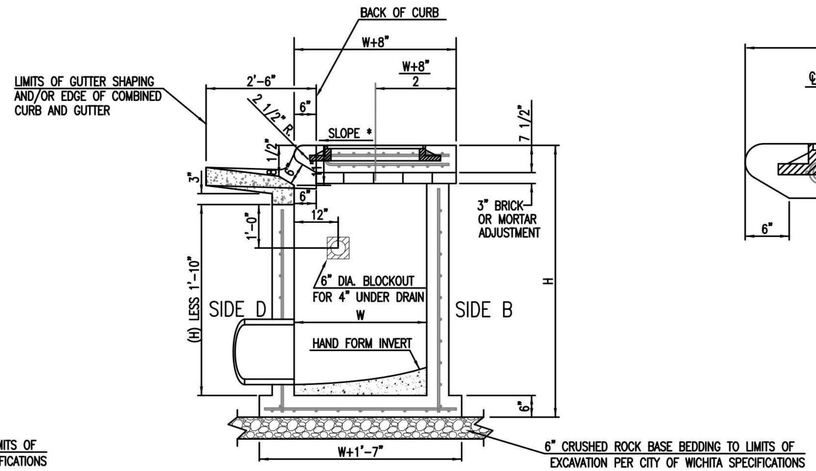
** FOR PIPES PERPENDICULAR TO INLET WALL

GENERAL NOTES

1. CONCRETE TOPS TO BE INSTALLED ON THIN MORTAR CUSHION TO INSURE FULL SUPPORT ALONG BRICK. CONCRETE TOPS MAY BE CAST IN PLACE OR PRECAST. CONCRETE USED FOR INLET CONSTRUCTION SHALL CONFORM TO CITY OF WICHITA SPECIFICATIONS FOR CONCRETE PAVEMENT MIX.
2. CONTRACTOR SHALL HAVE THE OPTION OF CONSTRUCTING 8" BRICK MASONRY WALLS BETWEEN THE CONCRETE INLET BASE AND TOP OF THIS INLET WHEN W=5'-0" AND H=7'-0" OR LESS.
3. INLET INVERT SHALL BE SHAPED WITH 8 SACK SAND MIX CONCRETE TO CREATE FLOW CHANNELS AND TO INCREASE HYDRAULIC EFFICIENCY SUCH THAT THE INLET WILL BE SELF CLEANING BETWEEN ALL INLET AND/OR OUTLET PIPES.
4. THE ENDS OF ALL PIPES INSTALLED IN INLETS SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF THE INLET WALL.
5. INLET FRAME AND COVER TO BE DEETER #2014, EJIW #1936 Z4, OR APPROVED EQUAL, SEE SW-303.
6. CONTRACTOR SHALL REMOVE LIFTING HOOKS AFTER INSTALLATION. RECESSES IN INLET WALL SHALL BE GROUTED FLUSH TO THE INLET WALL WITH HYDRAULIC CEMENT AFTER THE INLET IS IN PLACE. LIFTING HOLES THRU THE INLET WALL WILL NOT BE ACCEPTED.

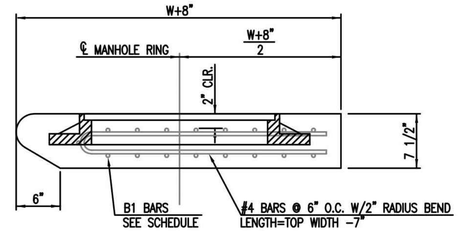


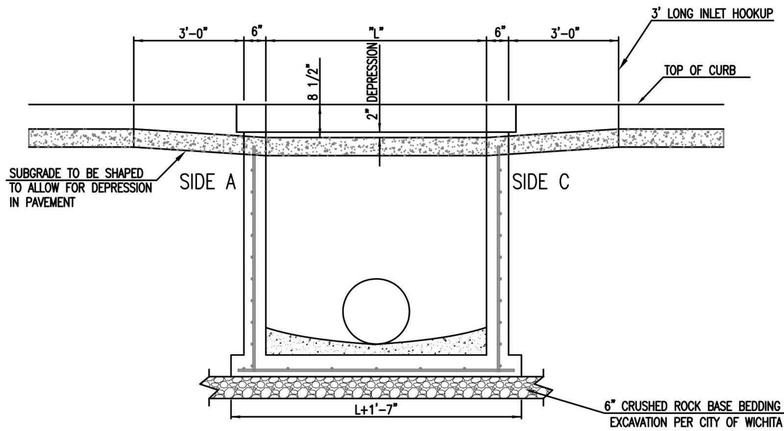
SECTION "A-A"



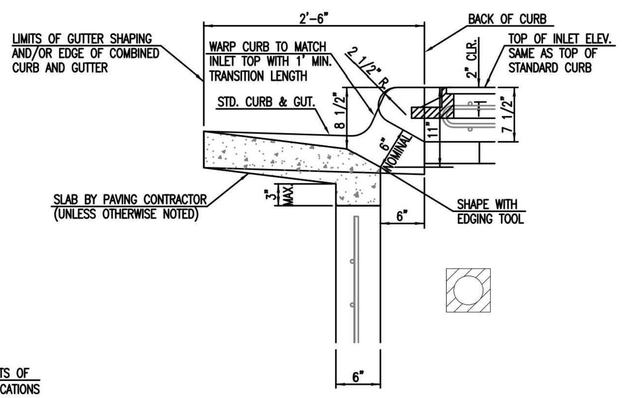
SECTION "C-C"

NOTES:
* SLOPE OF INLET TOP TO MATCH SIDEWALK OR PARKING SLOPES WITHIN LIMITS INDICATED.





SECTION "B-B"



SECTION "D-D"

REVISED: MARCH 2015

CITY OF WICHITA
PUBLIC WORKS & UTILITIES ENGINEERING DIVISION

STANDARD TYPE 1
CURB INLET
5'-0" OR 10'-0" OPENING

CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER	OCA NUMBER	DATE
472-2023-085860 23-04-E484	40107823	8/5/25

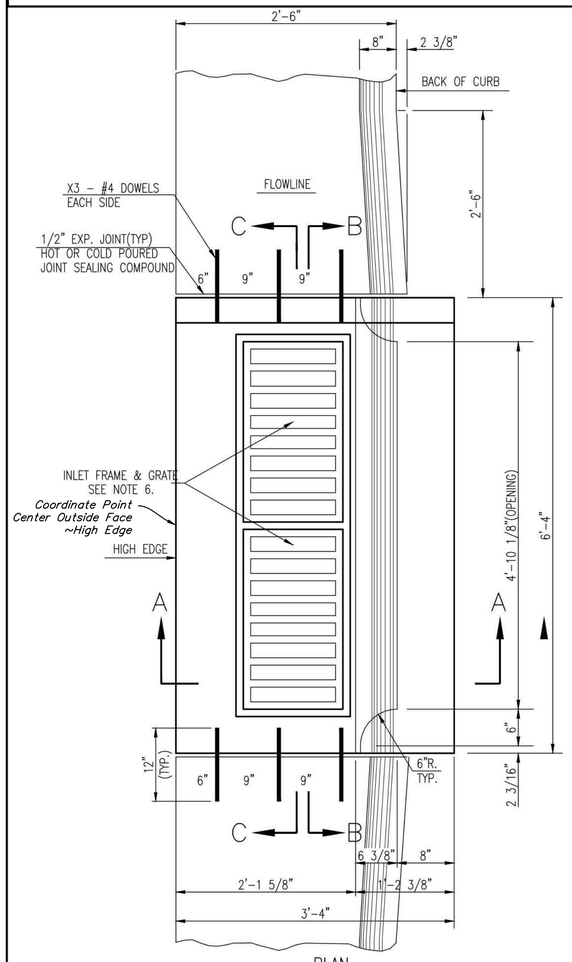
CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

SHEET
65

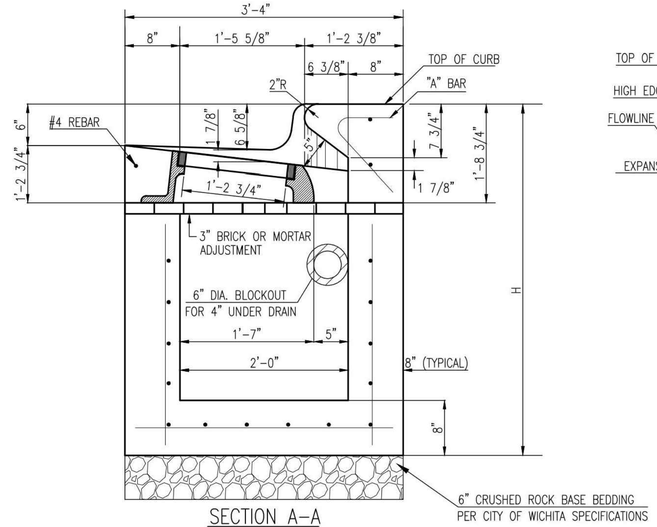
SW-101

E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\SWS DETAILS.dwg

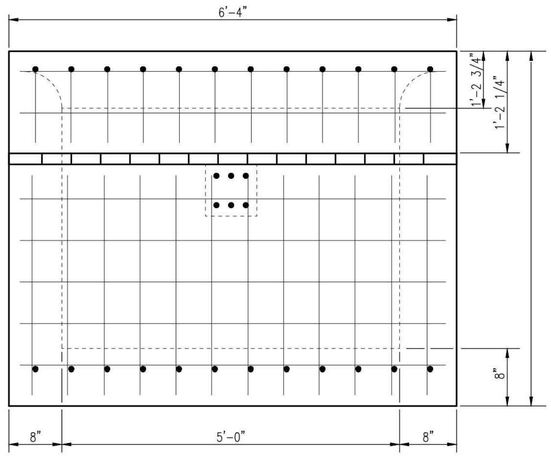
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	66	148



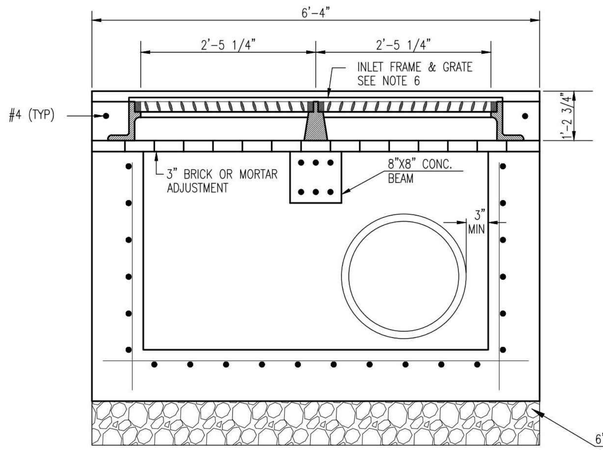
PLAN



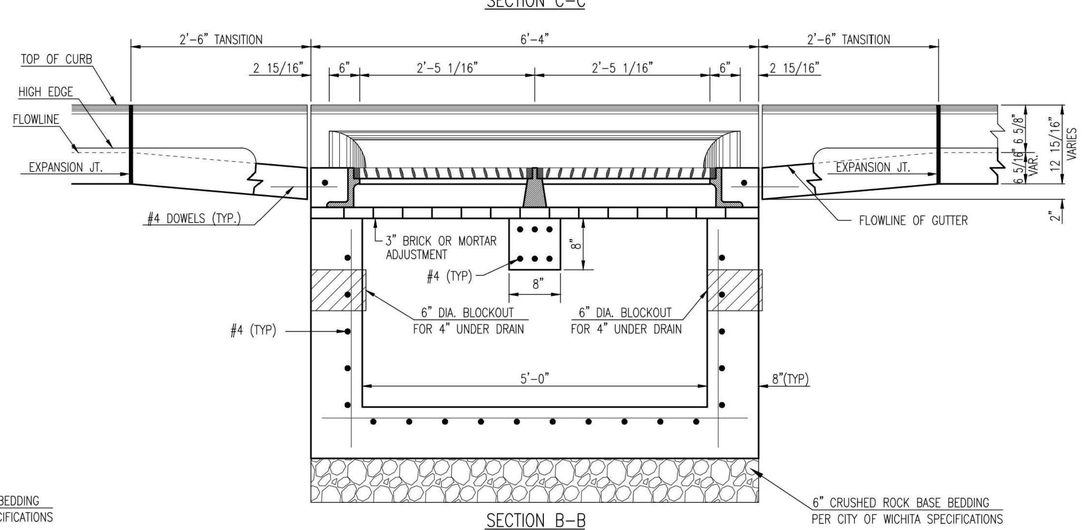
SECTION A-A



REAR WALL



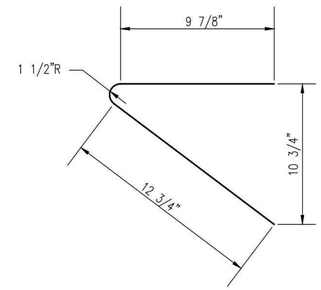
SECTION C-C



SECTION B-B

GENERAL NOTES

1. USE THE CONCRETE MIX SPECIFIED FOR THE CITY OF WICHITA CONCRETE PAVEMENT THROUGHOUT. ALL EXPOSED EDGES SHALL BE FINISHED WITH AN EDGING TOOL. REINFORCING BARS SHALL BE BENT AROUND PIPE.
2. INLET INVERT SHALL BE SHAPED WITH 8 SACK MIX CONCRETE TO CREATE FLOW CHANNELS AND TO INCREASE HYDRAULIC EFFICIENCY SUCH THAT THE INLET WILL BE SELF CLEANING BETWEEN ALL INLET AND/OR OUTLET PIPES.
3. ALL BARS ARE #4 WITH 6" SPACING AND SHALL HAVE A MINIMUM CLEARANCE OF 1 1/2 INCHES UNLESS OTHERWISE NOTED ON THE PLANS.
4. WHEN DIRECTED BY THE ENGINEER, A SMALL OPENING MAY BE REQUIRED IN THE BACK OF THE INLET IN ORDER TO DRAIN A LOW AREA. REINFORCING BARS WILL EXTEND THROUGH THE OPENINGS. NO DEDUCTIONS IN CONCRETE QUANTITIES WILL BE MADE FOR THESE OPENINGS.
5. NO DEDUCTIONS WILL BE MADE IN PAY LENGTH OF CURB, GUTTER, OR CURB AND GUTTER THROUGH THE INLET AREA.
6. USE DEETER FOUNDRY, INC. CASTING NO. 2442/43 OR EJIW 7600Z LEFT SIDE, 7600 RIGHT SIDE IN INLET FRAME AND GRATE WITH STYLE H GRATE. INLET FRAME TO BE PROOF LOAD TESTED TO 40,000 LBS. ON UNSUPPORTED SIDE.
7. REINFORCING BARS SHALL BE CUT OR BENT AROUND PIPES. NO DEDUCTION IN CONCRETE QUANTITIES SHALL BE MADE FOR PIPE OPENINGS.
8. THE VANES OF THE GRATE SHALL BE ORIENTED WITH RESPECT TO THE FLOW ARROWS SHOWN ON THE PLANS.
9. CONTRACTOR SHALL REMOVE LIFTING HOOKS AFTER INSTALLATION. RECESSES IN INLET WALL SHALL BE GROUTED FLUSH TO THE INLET WALL WITH HYDRAULIC CEMENT AFTER THE INLET IS IN PLACE. LIFTING HOLES THRU THE INLET WALL WILL NOT BE ACCEPTED.



"A" BAR

BENDING DIAGRAM

CITY OF WICHITA

PUBLIC WORKS & UTILITIES ENGINEERING DIVISION

STANDARD DOUBLE TYPE II CURB INLET

CITY ENGINEER

Gary Janzen, P.E. City Engineer

PROJECT NUMBER	OCA NUMBER	DATE
472-2023-085860 23-04-E484	40107823	8/5/25

CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

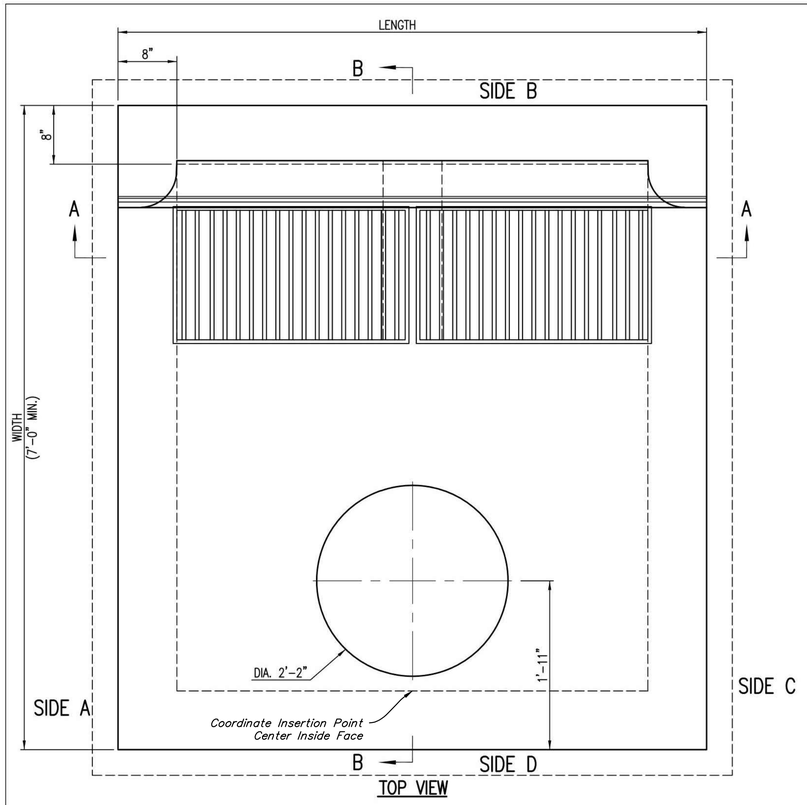
DESIGN	DRAWN
Staff	Staff

SHEET 66

M:\ENG\DETAILS\Wichita\Sewers\SW-106-Type 2 Inlet Double.dwg_SW-106

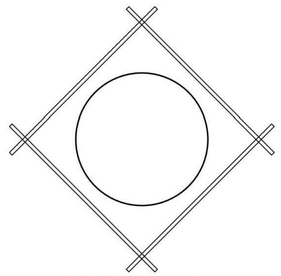
E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\SWS DETAILS.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	67	148

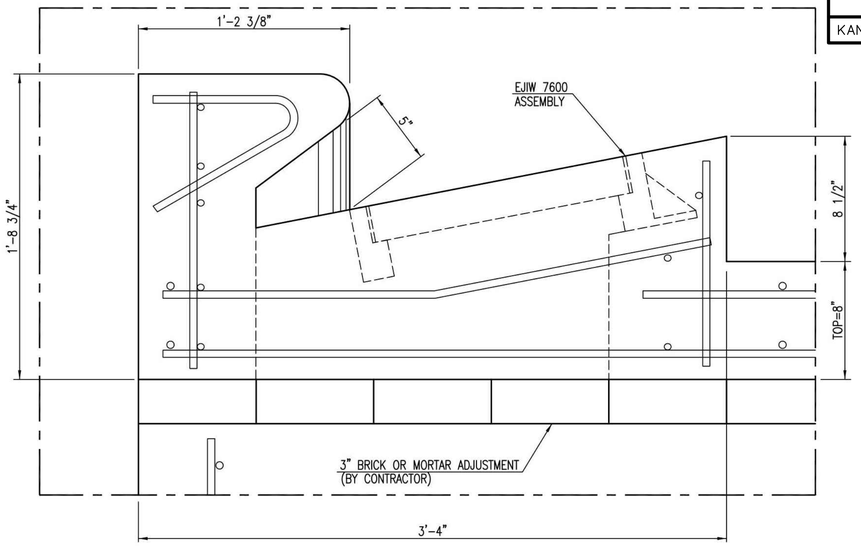


TOP VIEW

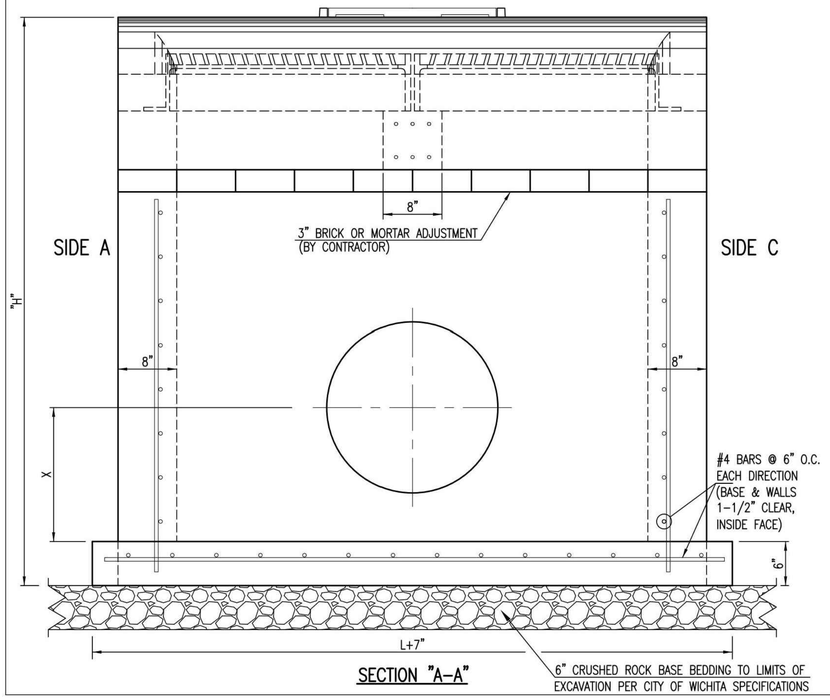
**ALL REINFORCING TO BE #4 BARS @ 6" O.C.



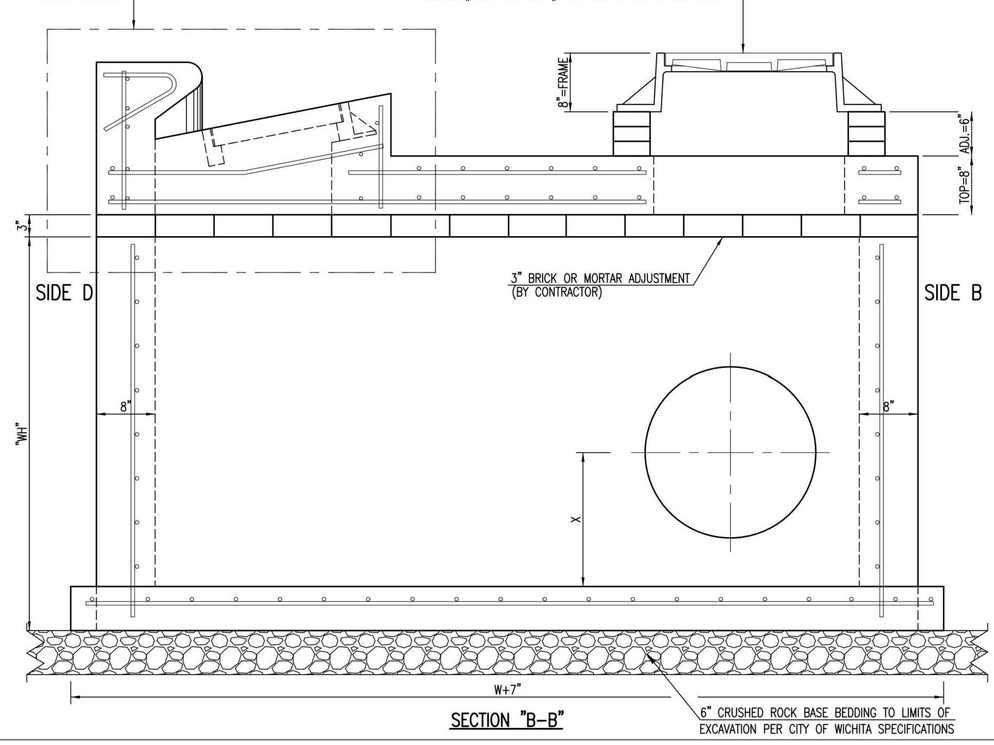
REINFORCING DETAIL
TYPICAL BLOCKOUT REINFORCING
(4) EA. #4 BARS



CURB DETAIL



SECTION "A–A"



SECTION "B–B"

GENERAL NOTES

1. USE THE CONCRETE MIX SPECIFIED FOR THE CITY OF WICHITA CONCRETE PAVEMENT THROUGHOUT. ALL EXPOSED EDGES SHALL BE FINISHED WITH AN EDGING TOOL. REINFORCING BARS SHALL BE BENT AROUND PIPE.
2. INLET/MANHOLE INVERT SHALL BE SHAPED WITH 8 SACK MIX CONCRETE TO CREATE FLOW CHANNELS AND TO INCREASE HYDRAULIC EFFICIENCY SUCH THAT THE INLET WILL BE SELF CLEANING BETWEEN ALL INLET AND/OR OUTLET PIPES.
3. ALL BARS ARE #4 WITH 6" SPACING AND SHALL HAVE A MINIMUM CLEARANCE OF 1 1/2" INCHES UNLESS OTHERWISE NOTED ON THE PLANS.
4. NO DEDUCTIONS WILL BE MADE IN PAY LENGTH OF CURB, GUTTER, OR CURB AND GUTTER THROUGH THE INLET AREA.
5. USE DEETER FOUNDRY, INC. CASTING NO. 2442/43 OR EJIW 7600Z LEFT SIDE, 7600 RIGHT SIDE IN INLET FRAME AND GRATE WITH STYLE H GRATE. INLET FRAME TO BE PROOF LOAD TESTED TO 40,000 LBS. ON UNSUPPORTED SIDE.
6. RING AND COVER SHALL BE DEETER #1261 OR EJIW #1936–Z1, OR APPROVED EQUAL, SEE SW–303.
7. REINFORCING BARS SHALL BE CUT OR BENT AROUND PIPES. NO DEDUCTION IN CONCRETE QUANTITIES SHALL BE MADE FOR PIPE OPENINGS.
8. THE VANES OF THE GRATE SHALL BE ORIENTED WITH RESPECT TO THE FLOW ARROWS SHOWN ON THE PLANS.
9. AROUND INLET/MANHOLE OPENING IN TOP SLAB USE #5 BAR @ 45° ANGLE TO OTHER BARS. LENGTH = MH OPENING + 2'–0"
10. CONTRACTOR SHALL REMOVE LIFTING HOOKS AFTER INSTALLATION. RECESSES IN INLET/MANHOLE WALL SHALL BE GROUTED FLUSH TO THE INLET/MANHOLE WALL WITH HYDRAULIC CEMENT AFTER THE INLET/MANHOLE IS IN PLACE. LIFTING HOLES THRU THE INLET/MANHOLE WALL WILL NOT BE ACCEPTED.

REVISED: MARCH 2015

CITY OF WICHITA
PUBLIC WORKS & UTILITIES ENGINEERING DIVISION

SPECIAL TYPE II INLET/MANHOLE

CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER	OCA NUMBER	DATE
472-2023-085860 23-04-E484	40107823	8/5/25

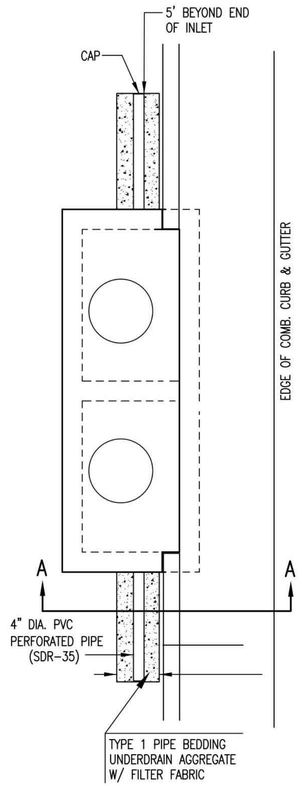
CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

SHEET 67

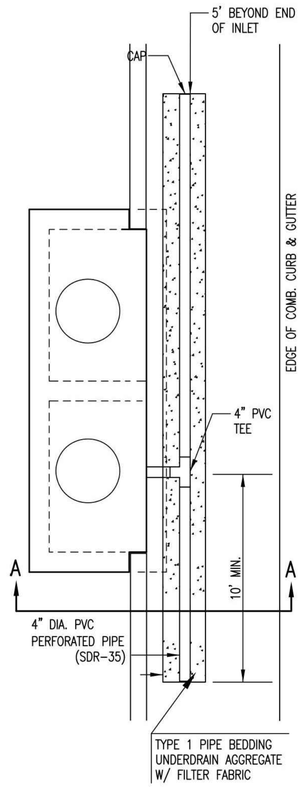
SW–107

E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\SIWS DETAILS.dwg

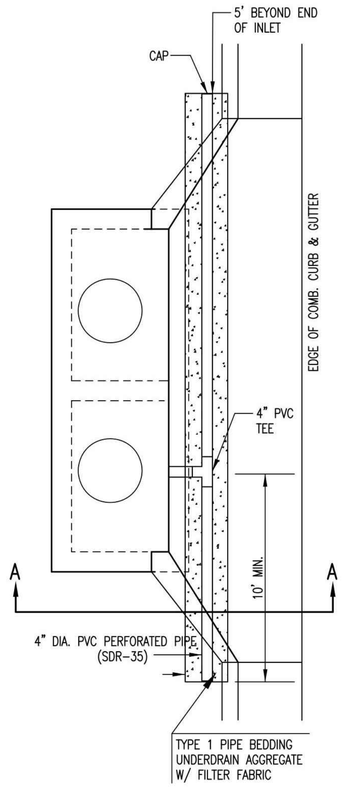
PAVEMENT UNDERDRAIN SHALL BE INSTALLED ON ALL CURB INLETS.



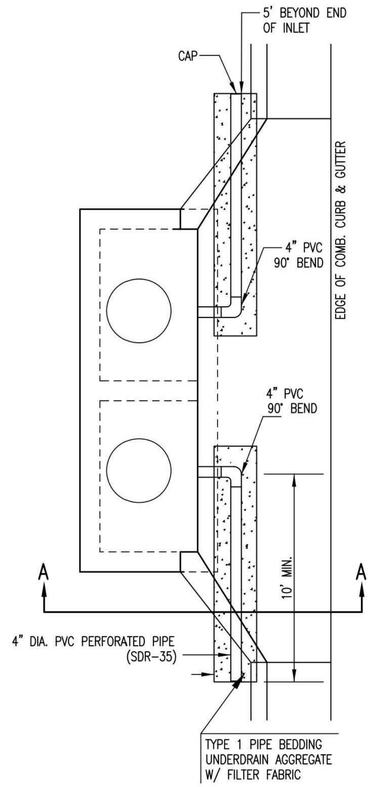
TYPE 1
OPTION 1



TYPE 1
OPTION 2



TYPE 1-A INLET
OPTION 1



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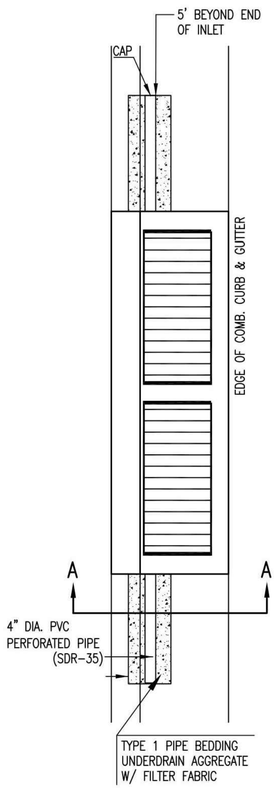
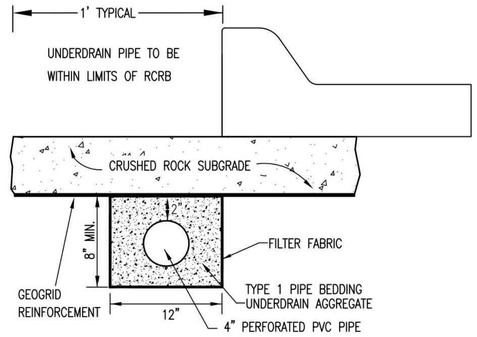
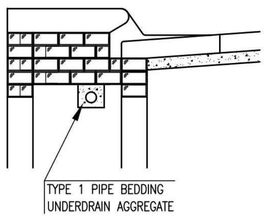
OPTION 2

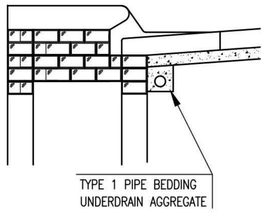


TYPE 2



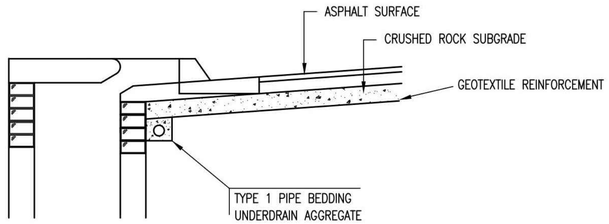
SECTION A-A (TYPICAL)





(MIN. 16 PERFORATIONS PER LIN. FT. @ 1/4" DIA.)
PERFORATIONS TO BE ON BOTTOM HALF

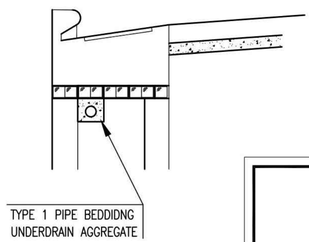
SECTION A-A



SECTION A-A

PAVEMENT UNDERDRAIN DETAIL

BID ITEM TO BE PROVIDED PER 4" PERFORATED UNDERDRAIN PIPE.



SECTION A-A

GENERAL NOTES

1. PAVEMENT CONTRACTOR WILL BE REQUIRED TO INSTALL SDR 35, 4" PERFORATED DRAIN PIPE AND TEE AS INDICATED IN THE DETAILS.
2. WHEN SWS CONSTRUCTED BY SEPARATE PROJECT, SWS CONTRACTOR SHALL INSTALL SDR 35, 4" DRAIN PIPE STUB ONLY THROUGH WALLS OF CURB INLETS AND CAP TO ALLOW FUTURE CONNECTION OF TEE AND ADDITIONAL DRAIN PIPE BY OTHERS.
2. UNDERDRAIN PIPE SHALL BE PAID AS A MEASURED QUANTITY BY THE LINEAL FOOT.

CITY OF WICHITA
PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

CURB INLET PAVEMENT UNDERDRAIN DETAIL

CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER	OCA NUMBER	DATE
472-2023-085860 23-04-E484	40107823	*10/2012*

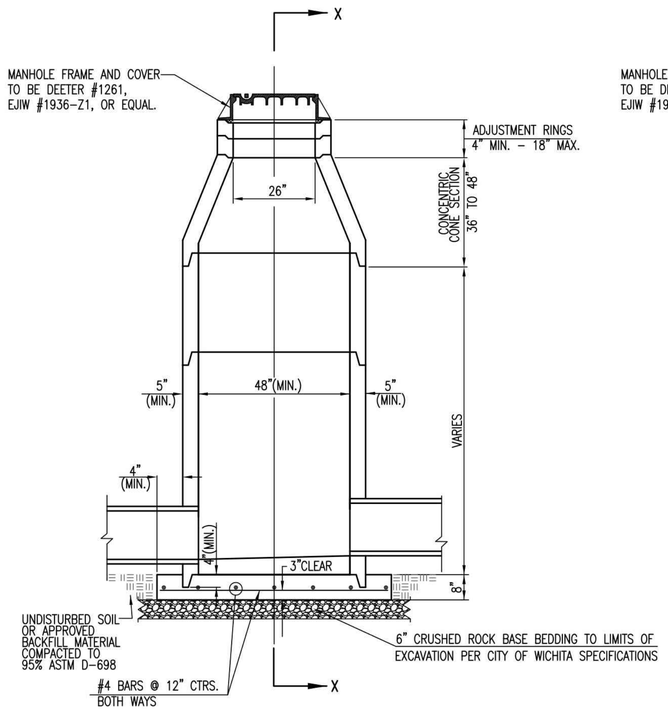
CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

SHEET
68

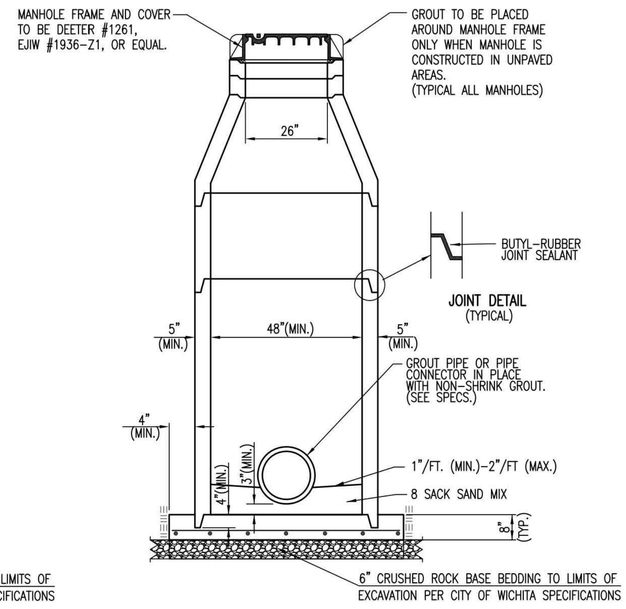
E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\SWS DETAILS.dwg

SW-111

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	69	148



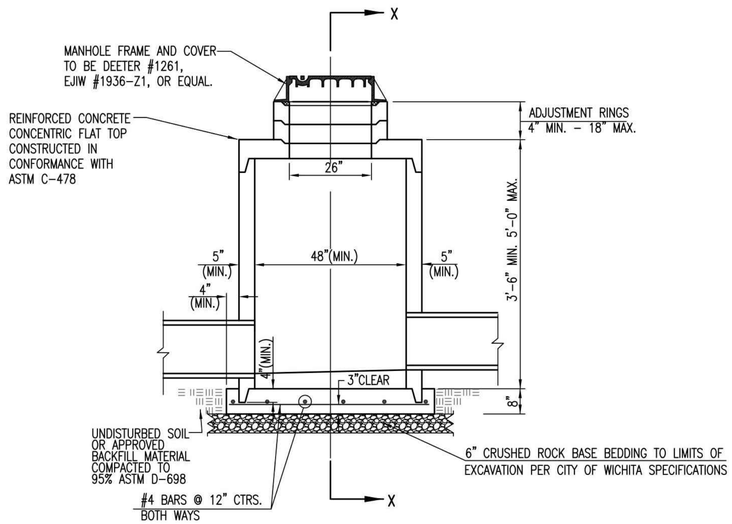
PRECAST
STANDARD MANHOLE
TYPE "A"



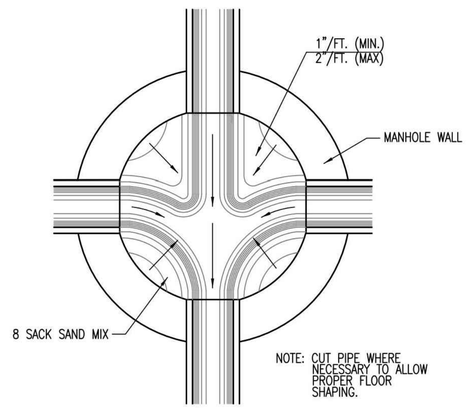
SECTION X-X
(TYPICAL)

GENERAL NOTES

1. IF, IN THE OPINION OF THE ENGINEER, THE MANHOLE SUBGRADE APPEARS UNSTABLE, THE CONTRACTOR WILL HAVE THE OPTION TO COMPACT SUBGRADE AS SHOWN OR INCREASE THE THICKNESS OF THE MANHOLE BASE AS DIRECTED BY THE ENGINEER.
2. STEEL REINFORCING WILL BE REQUIRED IN ALL MANHOLE BASES.
3. ALL MANHOLE CONSTRUCTION SHALL BE WATER TIGHT.
4. TOP OF MANHOLE FLOOR SLAB SHALL BE AT LEAST 3 INCHES BELOW THE FLOW LINE OF THE OUTLET PIPE TO INSURE SUFFICIENT MINIMUM THICKNESS OF SHAPED INVERT.
5. ALL PRECAST CONCRETE MANHOLE SECTIONS SHALL CONFORM TO THE LATEST REVISION OF ASTM C-478 AS MODIFIED BY THE SPECIFICATIONS.
6. CONCRETE USED FOR MANHOLE CONSTRUCTION SHALL CONFORM TO CITY OF WICHITA SPECIFICATIONS FOR CONCRETE PAVEMENT MIX.
7. PRECAST MANHOLES SHALL BE SET AT LEAST 4 INCHES INTO MANHOLE BASE.
8. MANHOLES WITH PIPE SIZES 24" AND LARGER SHALL HAVE 5 FOOT INSIDE DIAMETER (MIN.)
9. MANHOLES WITH PRECAST BASES MAY BE USED AT THE CONTRACTORS OPTION. THESE MANHOLES SHALL HAVE AN 8" MINIMUM BASE THICKNESS AND SHALL BE PLACED ON AN 8" MIN. CRUSHED ROCK BASE. PIPES SHALL BE ENCASED WITH CRUSHED ROCK TO AT LEAST 3 FEET FROM THE MANHOLE WALL.
10. CONTRACTOR SHALL REMOVE LIFTING HOOKS AFTER INSTALLATION. RECESSES IN MANHOLE WALL SHALL BE GROUTED FLUSH TO THE MANHOLE WALL WITH HYDRAULIC CEMENT AFTER THE MANHOLE IS IN PLACE. LIFTING HOLES THRU THE MANHOLE WALL WILL NOT BE ACCEPTED.
11. THE ENDS OF ALL PIPES IN MANHOLES SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF THE MANHOLE WALL.
12. MANHOLE INVERT SHALL BE SHAPED WITH 8 SACK SAND MIX CONCRETE TO CREATE FLOW CHANNELS AND TO INCREASE HYDRAULIC EFFICIENCY SUCH THAT THE MANHOLE WILL BE SELF CLEANING BETWEEN ALL INLET AND/OR OUTLET PIPES.
13. MANHOLE FRAME AND COVER TO BE DEETER #1261, EJIW #1936-Z1, OR APPROVED EQUAL, SEE SW-303.
14. FOR FLAT GRATED INLET APPLICATION, GRATE TO BE DEETER #1933, EJIW #1205 MDI, OR APPROVED EQUAL.
15. FOR BEEHIVE GRATE APPLICATION, GRATE TO BE DEETER #4495, EJIW #120545, OR APPROVED EQUAL.



PRECAST
SHALLOW MANHOLE
TYPE "B"



TYPICAL MANHOLE
FLOOR SHAPING

REVISED: MARCH 2015

CITY OF WICHITA
PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

PRECAST CONCRETE MANHOLE (STORM SEWER)

CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER	OCA NUMBER	DATE
472-2023-085860 23-04-E484	40107823	8/5/25

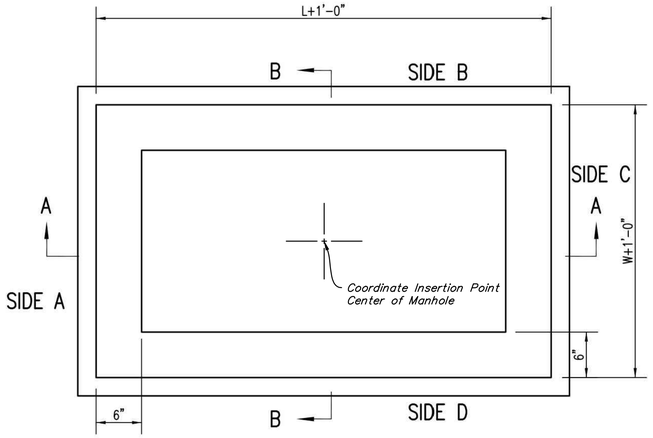
CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

SHEET
69

SW-301

E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\SWS DETAILS.dwg

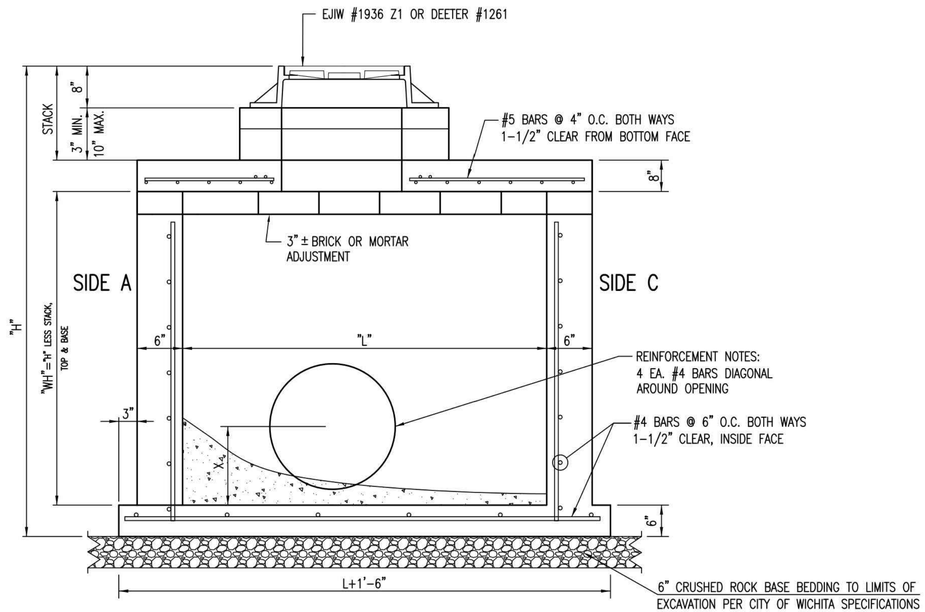
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	70	148



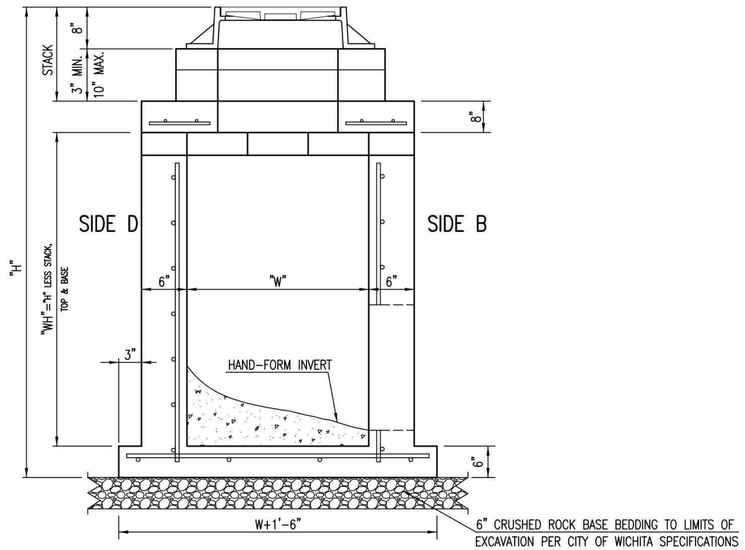
TOP VIEW

GENERAL NOTES

1. GRATE FRAME TO BE INSTALLED ON THIN MORTAR CUSHION TO INSURE FULL SUPPORT ALONG BRICK. CONCRETE USED FOR INLET CONSTRUCTION SHALL CONFORM TO CITY OF WICHITA SPECIFICATIONS FOR CONCRETE PAVEMENT MIX.
2. INLET INVERT SHALL BE SHAPED WITH 8 SACK SAND MIX CONCRETE TO CREATE FLOW CHANNELS AND TO INCREASE HYDRAULIC EFFICIENCY SUCH THAT THE INLET WILL BE SELF CLEANING BETWEEN ALL INLET AND/OR OUTLET PIPES.
3. THE ENDS OF ALL PIPES INSTALLED IN INLETS SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF THE INLET WALL.
4. INLET FRAME AND GRATE TO BE DEETER #1261, EJIW #1936–Z1 OR APPROVED EQUAL, SEE SW–303.
5. CONTRACTOR SHALL REMOVE LIFTING HOOKS AFTER INSTALLATION. RECESSES IN MANHOLE WALL SHALL BE GROUTED FLUSH TO THE MANHOLE WALL WITH HYDRAULIC CEMENT AFTER THE MANHOLE IS IN PLACE. LIFTING HOLES THRU THE MANHOLE WALL WILL NOT BE ACCEPTED.



SECTION "A–A"



SECTION "B–B"

REVISED: MARCH 2015

CITY OF WICHITA

PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

REINFORCED CONCRETE MANHOLE (STORM SEWER)

CITY ENGINEER

GARY JANZEN, P.E.

PROJECT NUMBER	OCA NUMBER	DATE
472-2023-085860 23-04-E484	40107823	8/5/25

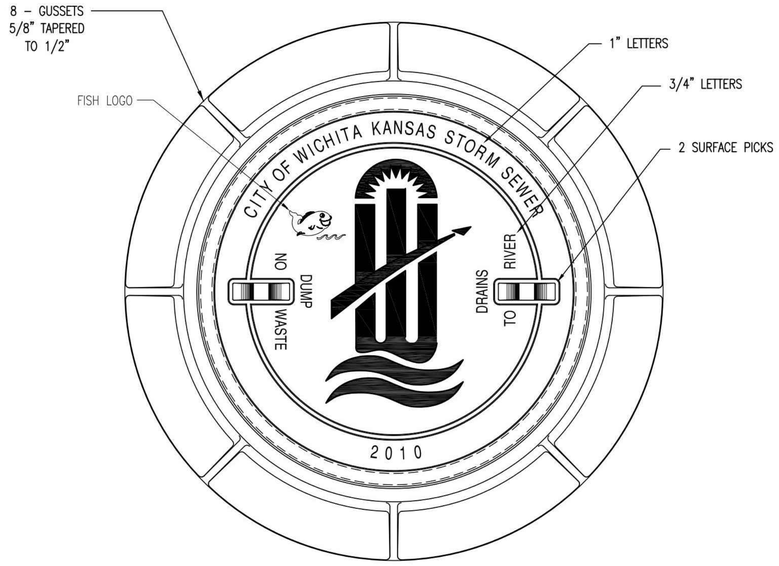
CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

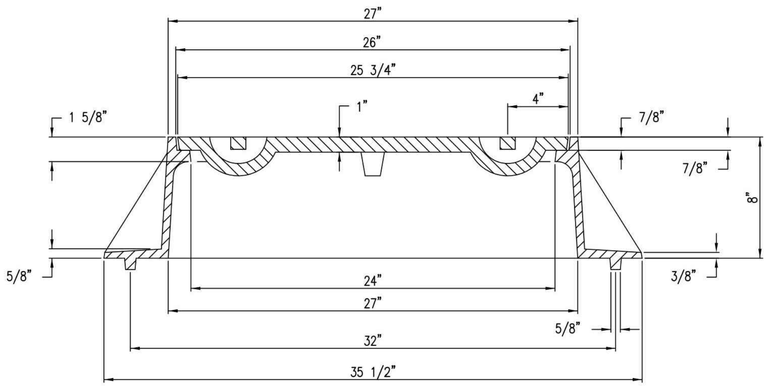
SHEET 70

SW–302

E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\SWS DETAILS.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	71	148

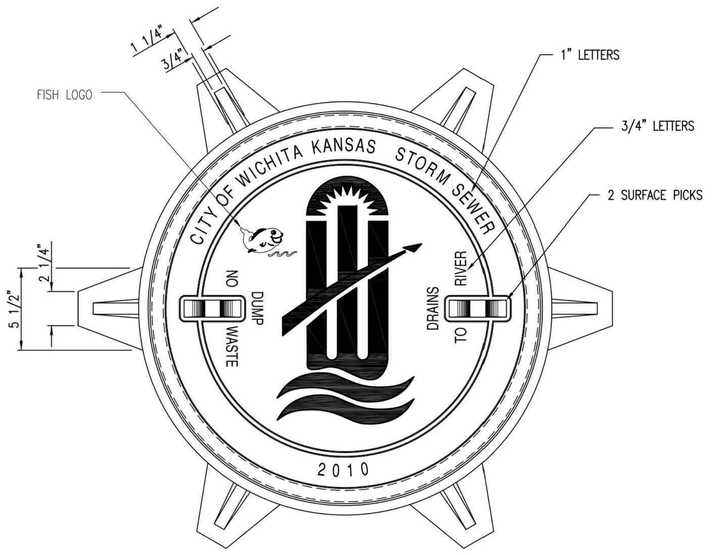


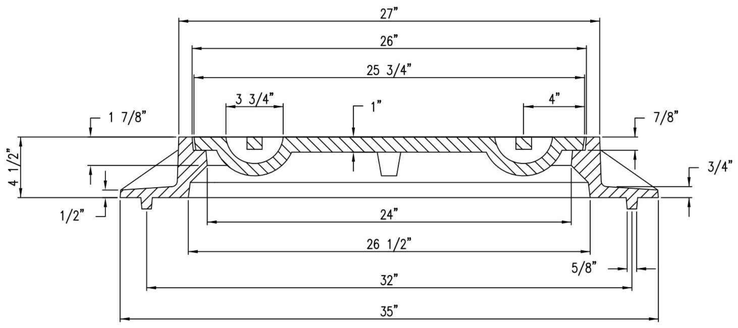


MANHOLE FRAME

DEETER #1261 OR EJIW #1936-Z1

NOTE:
1. FURNISHED WITH MACHINED HORIZONTAL BEARING SURFACE.
2. COVER TO BE DEETER #1261 OR EJIW #1936A.





INLET FRAME

DEETER #2014 OR EJIW #1936-Z4

NOTE:
1. FURNISHED WITH MACHINED HORIZONTAL BEARING SURFACES.
2. NOT TO BE USED UNDER PAVEMENT.
3. COVER TO BE DEETER #1261 OR EJIW #1936A.

CITY OF WICHITA
PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

MANHOLE/INLET FRAME AND COVER (STORM SEWER)

CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER	OCA NUMBER	DATE
472-2023-085860 23-04-E484	40107823	11/2010

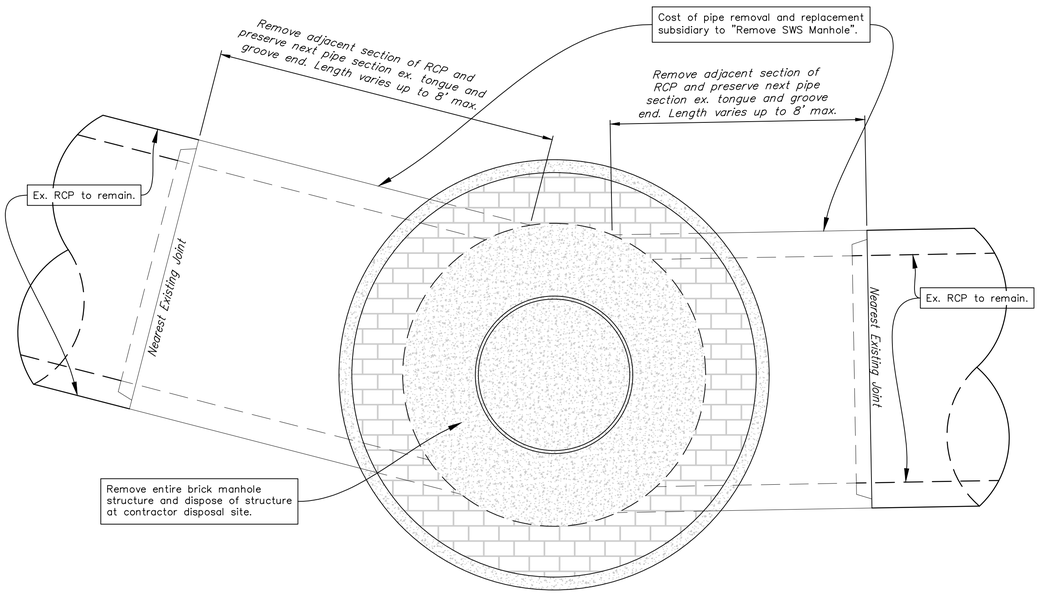
CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

SHEET
71

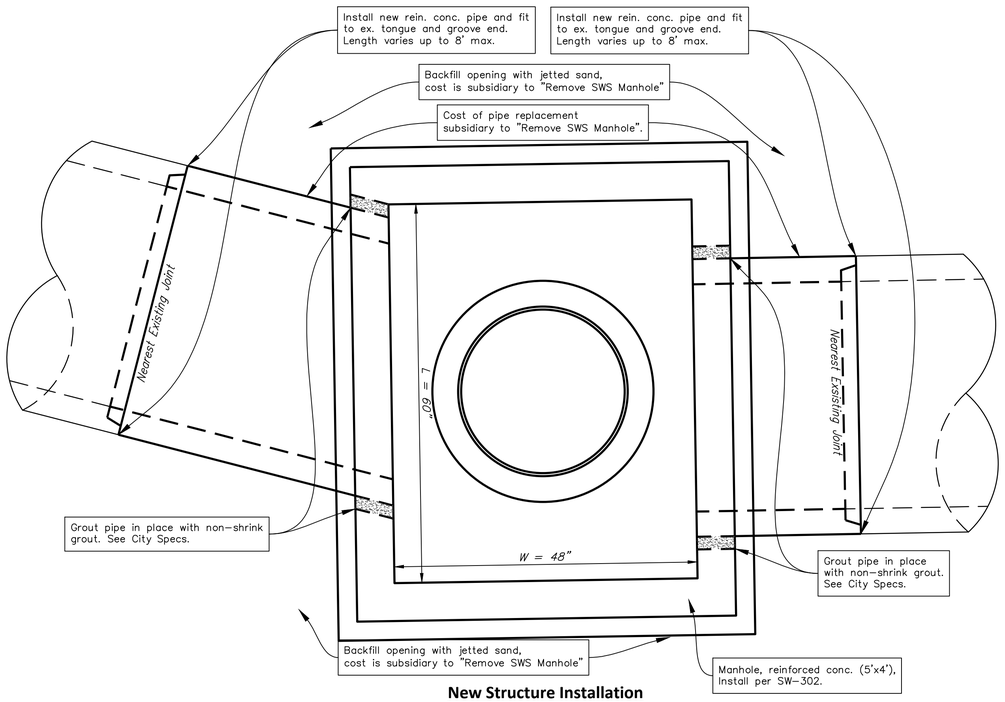
SW-303

E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\SWS DETAILS.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	72	148



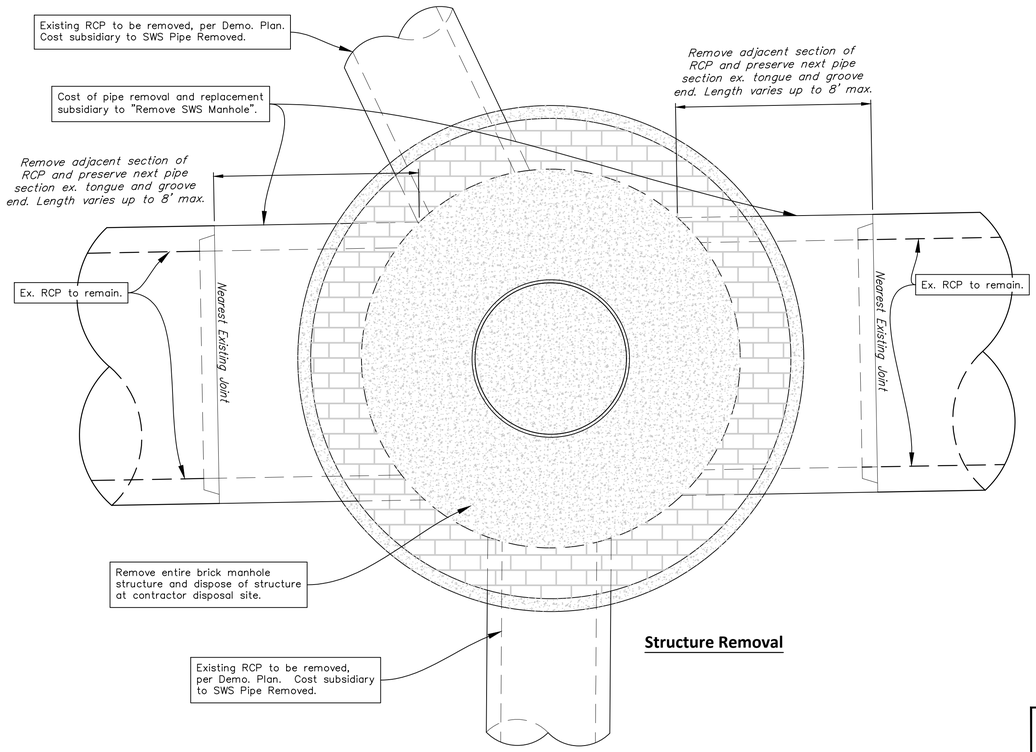
Structure Removal



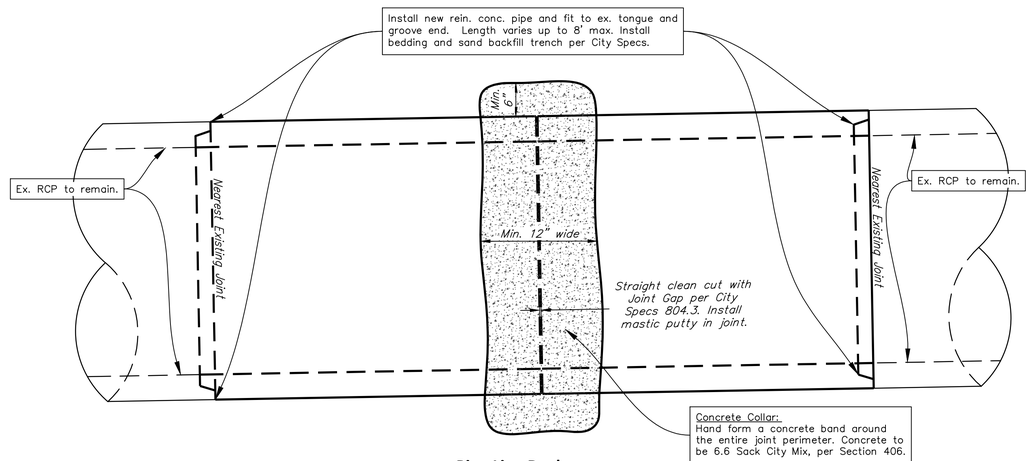
New Structure Installation

STORM MANHOLE REPLACEMENT

No to Scale



Structure Removal



Pipe Line Replacement

Install Concrete Collar only when new Manhole is installed within 16 lf of removed manhole or 3 section of RCP.

Note: The cost of pipe removal and replacement, concrete collar and sand back of is subsidiary to "Remove SWS Manhole". Where a new manhole is installed within 3 joints or 16' of the removed manhole, do not install concrete collar. Install new RCP sections from existing tongue and groove end to new Manhole.

STORM MANHOLE REMOVAL

No to Scale

BAUGHMAN COMPANY
315 Ellis St.
Wichita, KS 67211
316-262-7271
BaughmanCo.com

CITY OF WICHITA
17TH STREET

STORM MANHOLE DETAIL

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

DESIGN: PSB DRAWN: TMS

DATE: August 5, 2025

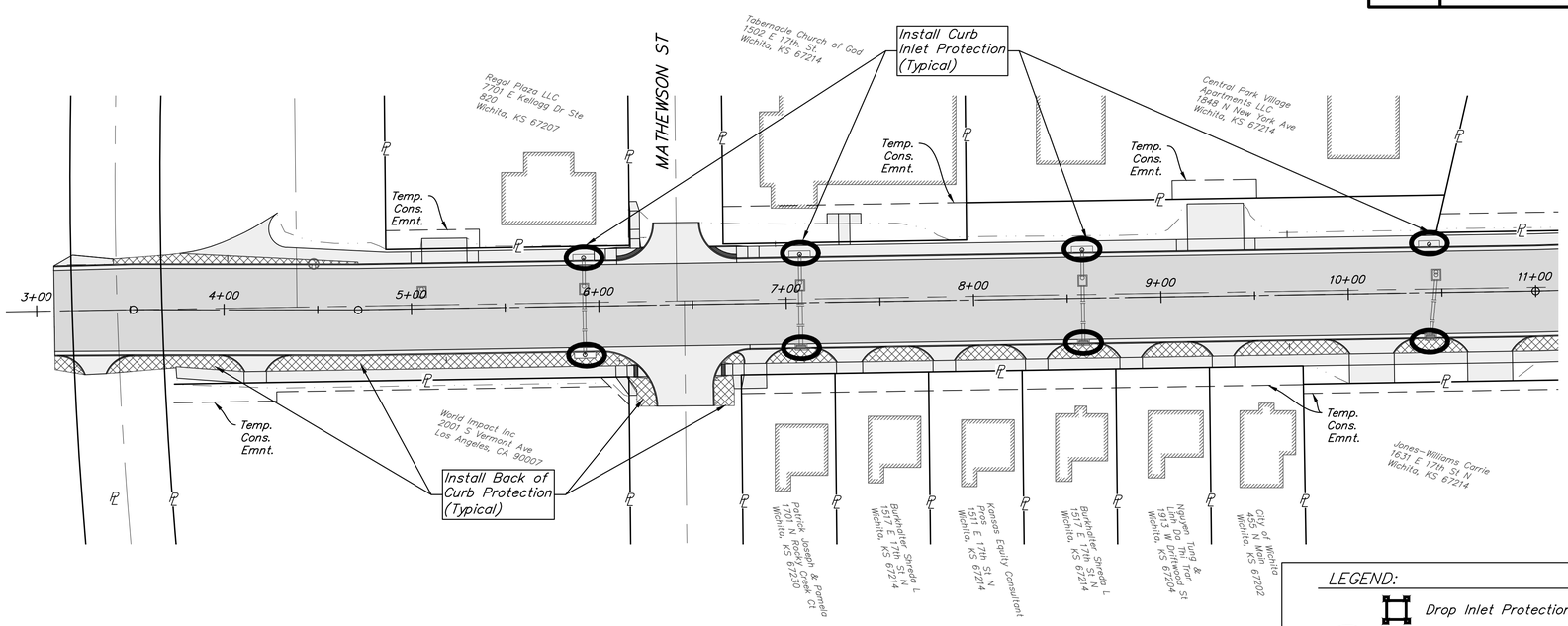
SHEET 72 OF 148

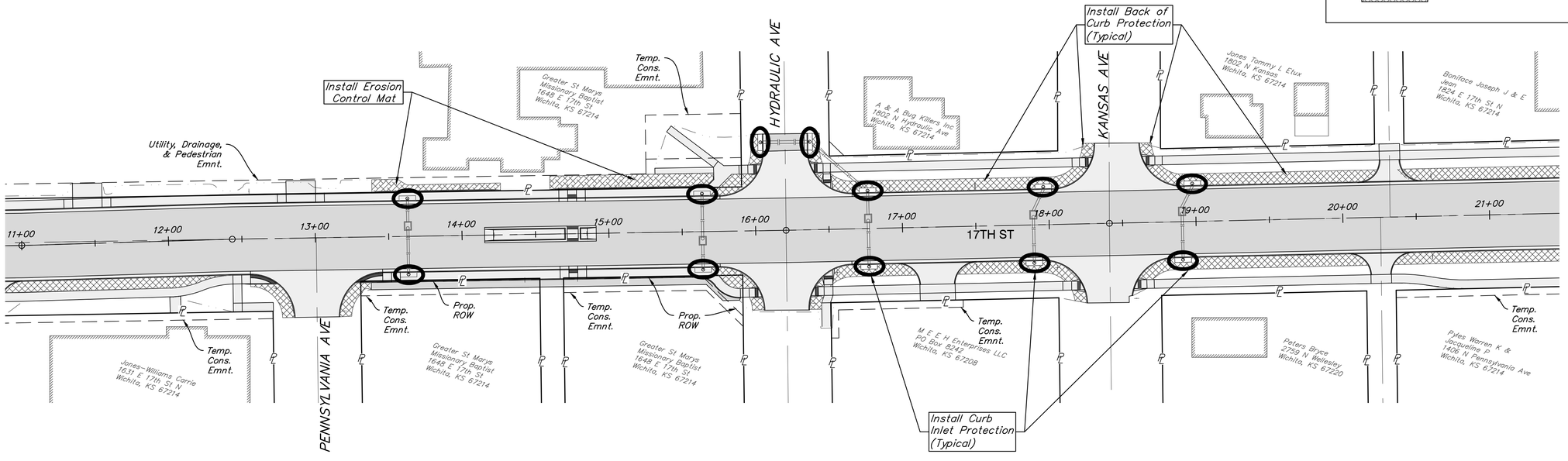
File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\SWS DETAILS.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	73	148

GENERAL NOTES:

1. The contractor shall install Erosion Control on the site prior to start of construction activities and during construction as site conditions change.
2. The intent of all erosion control devices is to prevent eroded soil from entering ditches, stormwater systems, bodies of water, streets, or any other drainage facility. This sheet is intended to provide guidelines as the what type of erosion control devices should be installed during the construction process to meet this intent.
3. Locations shown for erosion control BMPs are general in nature. contractor shall be responsible for making field adjustments to erosion control BMPs throughout construction based on actual on–site conditions.
4. The application of erosion control devices shown on this sheet is for situations normally encountered. From time to time, situations will arise that may require devices other than that shown. Erosion control devices, other than those shown, may be utilized so long as they are effective, maintained, and approved by the City.
5. BMPs shall remain in place and be maintained by the Contractor until the surface is stabilized. A stablized earth surface is defined as on that is hard surfaced with concrete, asphalt, or the like, or one on which 70% of the grass has germinated on the entire surface.
6. Contractor shall be responsible for maintaining on–site BMPs throughout construction. This includes repair and replacement of damaged, deteriorated, and inffective BMPs. This shall include removal of debris or soil material which has settled on the upstream side of BMP.
7. Failure to use and maintain soil erosion devices is a violation of environmental protection agency law and will subject the contractor to the penalties provided therein.
8. A KDHE NOI Permit has been obtained for this project. It shall be the contractor responsibility to follow and maintain this plan through construction





LEGEND:

- Drop Inlet Protection
- Curb Inlet Protection
- Ditch Check
- Silt Fence
- Erosion Control Berm
- Erosion Control Mat
- Back of Curb Protection

BRENT CHESNUT LICENSED 23419 08/05/2025 KANSAS PROFESSIONAL ENGINEER

BAUGHMAN COMPANY
315 Ellis St.
Wichita, KS 67211
316-262-7271
BaughmanCo.com

CITY OF WICHITA
17TH STREET

EROSION CONTROL PLAN 1

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

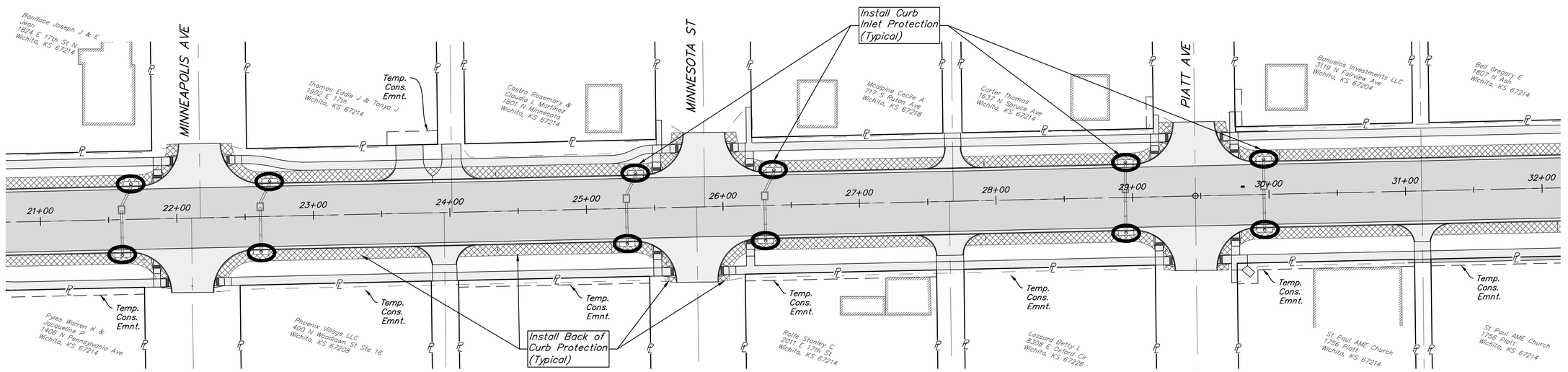
DESIGN: BDC DRAWN: TMS

DATE: August 5, 2025

SHEET 73 OF 148

File: E:\Projects\Wichita 17th St. I-135 to Hillside (23-04-E484)\Engineering\DWG\EC PLAN.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	74	148

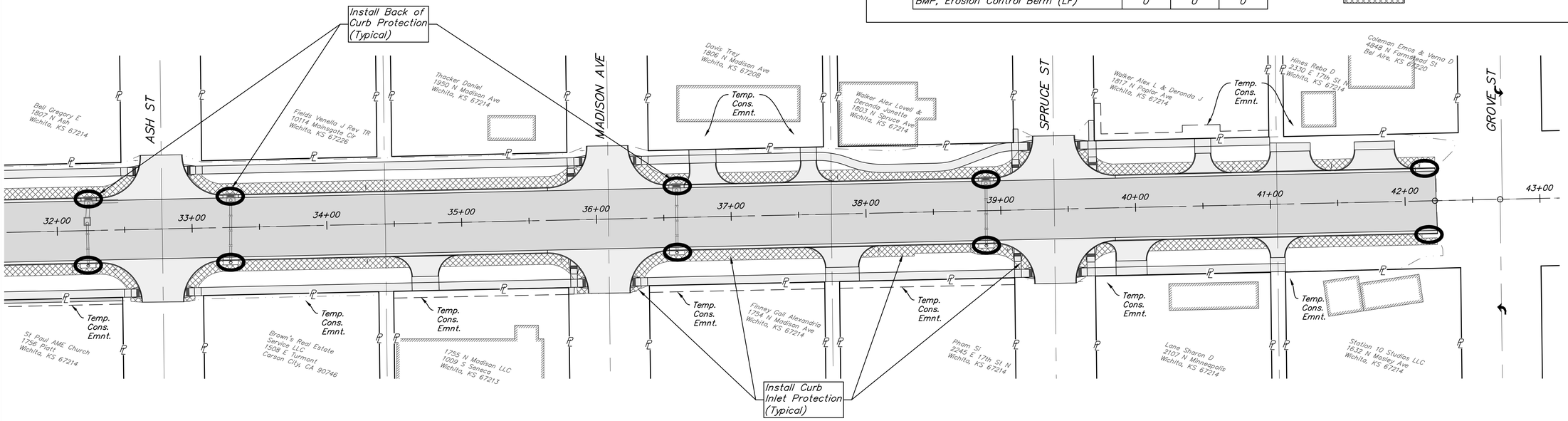


Summary of Erosion Control

Item	Install	Maintain	Remove
BMP, Construction Entrance (EA)	0	0	0
BMP, Silt Fence (LF)	0	0	0
BMP, Ditch Check (EA)	0	0	0
BMP, Curb Inlet Protection (EA)	42	42	42
BMP, Drop Inlet Protection (EA)	0	0	0
BMP, Erosion Control Mat (SY)	156	156	0
BMP, Back of Curb Protection (LF)	5,696	5,966	0
BMP, Erosion Control Berm (LF)	0	0	0

LEGEND:

- Drop Inlet Protection
- Curb Inlet Protection
- Ditch Check
- Silt Fence
- Erosion Control Berm
- Erosion Control Mat
- Back of Curb Protection



BRENT CHESNUT LICENSED 23419 08/05/2025 KANSAS PROFESSIONAL ENGINEER

BAUGHMAN COMPANY
315 Ellis St.
Wichita, KS 67211
316-262-7271
BaughmanCo.com

CITY OF WICHITA
17TH STREET

EROSION CONTROL PLAN 2

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

DESIGN: BDC DRAWN: TMS

DATE: August 5, 2025

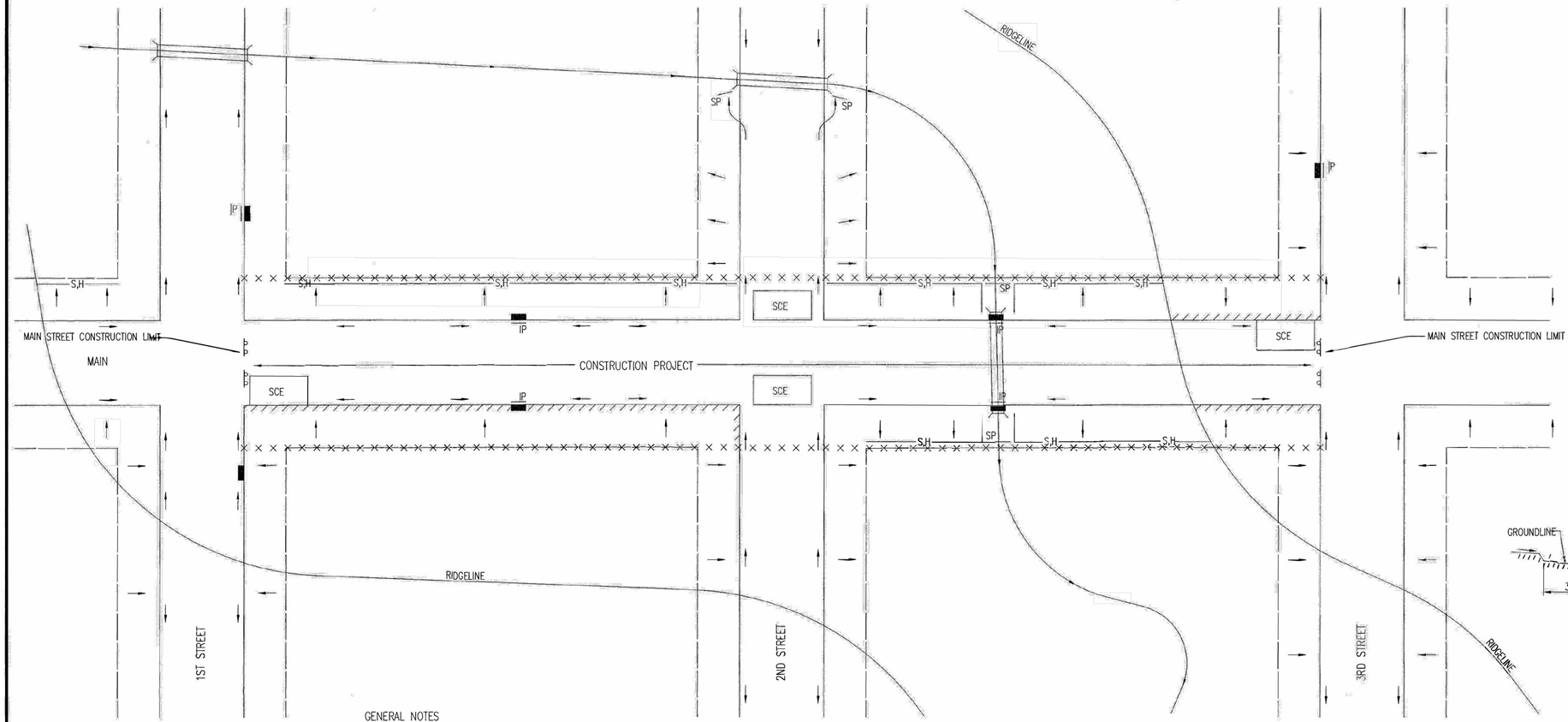
SHEET 74 OF 148

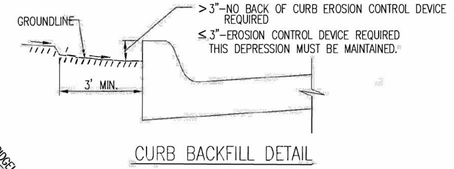
File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\EC PLAN.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	75	148

GENERAL NOTES

1. THIS SHEET IS INTENDED TO PROVIDE GUIDELINES AS TO WHAT TYPES OF EROSION CONTROL DEVICES WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS. CONTRACTORS ARE EXPECTED TO BID PROJECTS ACCORDINGLY.
2. EROSION CONTROL DEVICES MUST BE MAINTAINED BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION PROCESS AND UNTIL THE DISTURBED EARTH IS RESTABILIZED.
3. IF THE PROJECT WILL DISTURB 1 ACRE OR MORE, A FEDERAL/STATE NPDES STORMWATER PERMIT IS REQUIRED. A DETAILED STORMWATER POLLUTION PREVENTION PLAN, IS REQUIRED. THE EROSION CONTROL DEVICES SHOWN ON THIS SHEET ARE CONSIDERED TO BE THE MINIMUM TO BE SHOWN IN THE POLLUTION PREVENTION PLAN.
4. FOR PROJECTS DISTURBING LESS THAN 1 ACRE, CONTRACTORS ARE ENCOURAGED TO PREPARE STORMWATER POLLUTION PREVENTION PLANS PRIOR TO CONSTRUCTION. EROSION CONTROL DEVICES MUST BE USED ON ALL PROJECTS.
5. FAILURE TO USE AND MAINTAIN EROSION CONTROL DEVICES IS A VIOLATION OF SECTION 16.32 OF THE CITY CODE AND WILL SUBJECT THE CONTRACTOR TO THE PENALTIES PROVIDED FOR THEREIN.
6. THE APPLICATION OF EROSION CONTROL DEVICES SHOWN ON THIS SHEET IS FOR SITUATIONS NORMALLY ENCOUNTERED. FROM TIME TO TIME, SITUATIONS WILL ARISE THAT MAY REQUIRE A DIFFERENT DEVICE OTHER THAN THOSE SHOWN. EROSION CONTROL DEVICES, OTHER THAN THOSE SHOWN, MAY BE UTILIZED AS LONG AS THEY ARE EFFECTIVE AND MAINTAINED.





CURB BACKFILL DETAIL

THIS IS A TEMPORARY MEASURE ONLY, WHEN APPROVED BY THE PROJECT ENGINEER. THE DIRT GRADE BEHIND THE CURB SHALL BE BROUGHT TO THE TOP OF CURB, WITH TEMPORARY EROSION CONTROL MAT OR PERMANENT VEGETATION PLACED, PRIOR TO THE COMPLETION OF ALL PROJECTS.

LEGEND

- R-O-W LIMITS
- DRAINAGE FLOW PATH
- R/W LIMIT WITHIN CONSTRUCTION LIMIT
- STORM WATER INLETS
- IP — INLET PROTECTION
- S,H — SILT FENCE OR HAY BALE BARRIER
- SP — STREAM PROTECTION
- SCE — STABILIZED CONSTRUCTION ENTRANCE
- BACK OF CURB PROTECTION

GENERAL NOTES

1. THE INTENT OF ALL EROSION CONTROL DEVICES IS TO KEEP ALL SEDIMENT CONFINED TO THE CONSTRUCTION SITE, AND OUT OF ALL UNDERGROUND PIPES, DITCHES, LAKES, AND OTHER DRAINAGE FACILITIES, AND OFF OF STREETS.
2. THE POINT OF COMPLIANCE IS GENERALLY THE RIGHT–OF–WAY LINES WITHIN THE LIMITS OF CONSTRUCTION.
3. EROSION CONTROL DEVICES WILL BE REQUIRED AT ALL POINTS ALONG THE PROJECT WHERE DISTURBED EARTH CAN DRAIN ONTO PRIVATE PROPERTY.
4. INLET PROTECTION DEVICES WILL BE REQUIRED WHEREVER WATER CAN DRAIN OFF THE PROJECT SITE INTO AN INLET, INCLUDING ANY SIDE STREET INLETS.
5. EROSION CONTROL DEVICES SHALL BE INSTALLED AT CREEK CROSSINGS SO AS TO PREVENT SEDIMENT FROM ENTERING THEREIN.
6. STABILIZED CONSTRUCTION ENTRANCES SHALL BE PROVIDED, AS NEEDED, TO PREVENT MUD FROM TRACKING ONTO STREETS NOT UNDER CONSTRUCTION AND ON STREETS WITHIN THE PROJECT LIMITS IF TRAFFIC IS BEING MAINTAINED THROUGH THE PROJECT.
7. ANY MUD TRACKED ONTO STREETS MUST BE REMOVED AT THE END OF EACH WORK DAY.
8. THE CONTACTOR WILL BE REQUIRED TO PLACE EROSION CONTROL DEVICES BACK OF CURB, WHENEVER WATER CAN DRAIN OVER CURB, TO KEEP ERODED SOIL OUT OF THE GUTTERLINES, IN ACCORDANCE WITH THE FOLLOWING:
   A. THE DEVICE REQUIRED WILL BE APPROVED EROSION CONTROL MAT LISTED ON THE CITY'S APPROVED MATERIAL LIST. SAID BLANKET SHALL BE PLACED OVER THE APPROPRIATE SEED AND FERTILIZER, AS SPECIFIED IN THE PROJECT SPECIFICATIONS. (SEE SOIL EROSION BMPs – BACK OF CURB SEDIMENT BARRIER DETAILS)
   B. THIS DEVICE SHALL BE INSTALLED IMMEDIATELY WHENEVER THE CURB IS BACKFILLED TO WITHIN 3" OF THE TOP OF CURB. (SEE CURB BACKFILL DETAIL) OTHER BMP'S MAY BE REQUIRED AT LOCATIONS WHERE CONCENTRATED FLOW CARRIES SEDIMENT OVER THE CURB.
   C. ADDITIONALLY, OTHER EROSION CONTROL DEVICES (HAY BALES, SILT FENCE, ETC.) WILL BE INSTALLED AT LOCATIONS OF CONCENTRATED FLOW RESULTING IN SEDIMENT OVERRUNNING THE MAT.
   D. SHOULD THE PROJECT PLANS SPECIFY THAT THE RIGHT–OF–WAY IS TO BE SODDED, THE EXCELSIOR MAT WILL NOT BE REQUIRED SO LONG AS THE SOD IS PLACED WITHIN 48 HOURS AFTER CURB BACKFILL REACHES A HEIGHT OF 3" OR LESS FROM TOP OF CURB. (SEE CURB BACKFILL DETAIL)

GARY L. JANZEN — LICENSED — 16294 — KANSAS — PROFESSIONAL ENGINEER — 06/05/25

REVISION: JUNE 2015

CITY OF WICHITA

PUBLIC WORKS & UTILITIES ENGINEERING DIVISION

STREET IMPROVEMENT PROJECTS

CITY ENGINEER: GARY JANZEN, P.E.

PROJECT NUMBER	OCA NUMBER	DATE

CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

SHEET

SW-504

KENT CHESNUT — LICENSED — 23419 — 08/05/2025 — KANSAS — PROFESSIONAL ENGINEER

BAUGHMAN COMPANY
315 Ellis St.
Wichita, KS 67211
316-262-7271
BaughmanCo.com

CITY OF WICHITA
17TH STREET

EROSION CONTROL DETAILS 1

STREET IMPROVEMENTS

PROJECT NUMBER: 472-2023-085860
23-04-E484

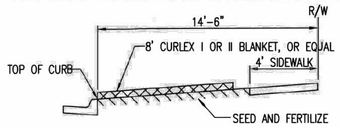
DESIGN: BDC DRAWN: BDC

DATE: August 5, 2025

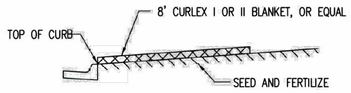
SHEET 75 OF 148

File: E:\Projects\Wichita 17th St. I-135 to Hillside (23-04-E484)\Engineering\DWG\EC DETAILS.dwg

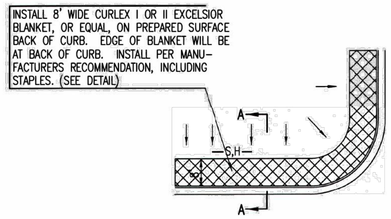
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	76	148



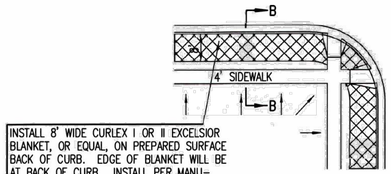
SECTION B–B



SECTION A–A



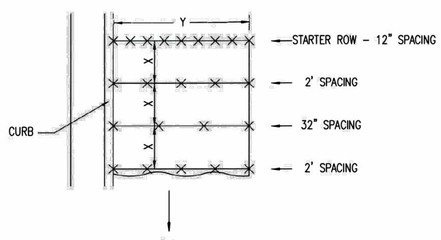
SOUTH STREET



GENERAL NOTES

1. EXCELSIOR MAT TO BE INSTALLED WHEN SOD IS NOT SPECIFIED ON PROJECT.
2. EXCELSIOR BLANKET TO BE INSTALLED OVER SEED AND FERTILIZER, AS SPECIFIED IN THE PROJECT SPECIFICATIONS.
3. AFTER INSTALLATION OF EXCELSIOR BLANKET, AT LOCATIONS WHERE CONCENTRATED FLOW CARRIES SEDIMENT OVER THE CURB AND INTO THE GUTTER, SUPPLEMENTAL EROSION CONTROL DEVICES WILL BE INSTALLED BY THE CONTRACTOR AS NEEDED, TO FIX THE PROBLEM.

BACK OF CURB PROTECTION DETAIL

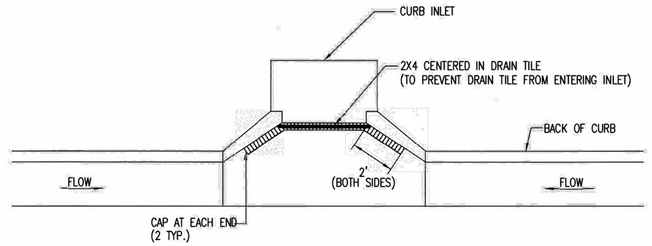


STAPLE

STAPLE PATTERN

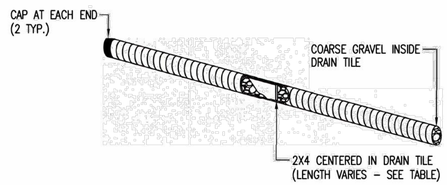
NOTES: USE 6" SEAM OVERLAP
(X & Y = RECOMMENDED BY MANUFACTURE)

DETAILS FOR APPROVED EROSION CONTROL MAT

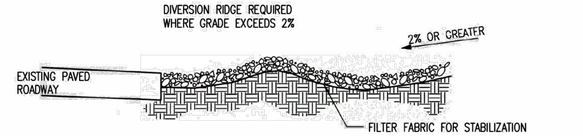


NOTE:
PLACE 4" PERFORATED PVC PIPE, FILLED WITH 1/2"–1" DIA. GRAVEL, IN FRONT OF CURB INLET AS SHOWN.

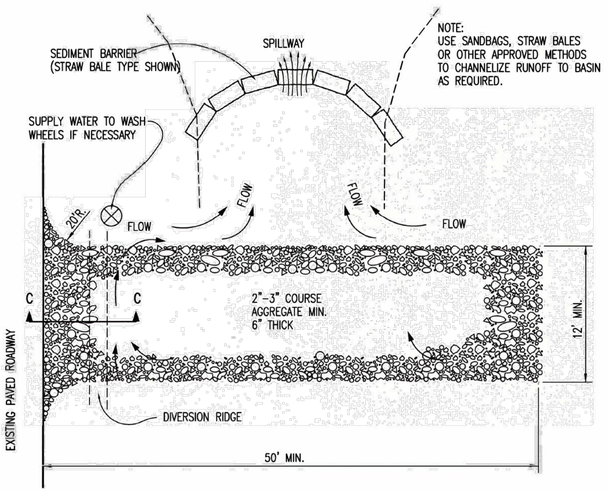
2X4 LENGTH	INLET TYPE	INLET OPENING
5'–6"	1–A	5'–0"
10'–6"	1–A	10'–0"
15'–6"	1–A	15'–0"



CURB INLET PROTECTION
4" PERFORATED PIPE W/ GRAVEL



SECTION C–C



STABILIZED CONSTRUCTION ENTRANCE

GENERAL NOTES

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS–OF–WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT–OF–WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN, AS SHOWN ABOVE.
4. DRIVE ENTRANCES ONTO RESIDENTIAL LOTS WILL NOT BE REQUIRED TO HAVE THE SEDIMENT BARRIER SHOWN, BUT WHEEL WASHING MAY BE REQUIRED IF STABILIZED ENTRANCE IS NOT SUFFICIENT TO KEEP MUD FROM BEING TRACKED ONTO ADJACENT STREET. ENTRANCE SHALL EXTEND FROM BACK OF CURB TO DWELLING.

REVISION DATE: MAY 2013

GARY L. JANZEN LICENSED PROFESSIONAL ENGINEER 19509 KANSAS
05/31/13

CITY OF WICHITA
PUBLIC WORKS & UTILITIES ENGINEERING DIVISION

BACK OF CURB PROTECTION, CURB INLET PROTECTION AND CONSTRUCTION ENTRANCE

CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER	OCA NUMBER	DATE

CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

SHEET

SW–501

BRENT CHESNUT LICENSED 23419 08/05/2025 KANSAS PROFESSIONAL ENGINEER

BAUGHMAN COMPANY
315 Ellis St.
Wichita, KS 67211
316-262-7271
BaughmanCo.com

CITY OF WICHITA
17TH STREET

EROSION CONTROL DETAILS 2

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

DESIGN: BDC DRAWN: BDC

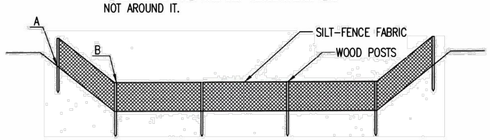
DATE: August 5, 2025

SHEET 76 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\EC DETAILS.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	77	148

NOTE: POINT A MUST BE HIGHER THAN POINT B SO THAT WATER FLOWS OVER THE SILT FENCE FABRIC AND NOT AROUND IT.



ELEVATION

SILT FENCE DITCH CHECKS
(STREAM PROTECTION)

MATERIAL SPECIFICATION:

SILT FENCE FABRIC SHOULD CONFORM TO THE AASHTO M288 96 SILT FENCE SPECIFICATION.
THE POSTS USED TO SUPPORT THE SILT FENCE FABRIC SHOULD BE A HARDWOOD MATERIAL WITH THE FOLLOWING MINIMUM DIMENSIONS: 2" SQUARE (NOMINAL) BY 4' LONG.
SILT FENCE FABRIC SHOULD BE ATTACHED TO THE WOODEN POSTS WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

PLACEMENT:

PLACE SILT FENCE IN DITCHES WHERE IT IS UNLIKELY THAT IT WILL BE OVERTOPPED.
WATER SHOULD FLOW THROUGH A SILT FENCE DITCH CHECK, NOT OVER IT. SILT FENCE DITCH CHECKS OFTEN FAIL WHEN OVERTOPPED.
SILT FENCE DITCH CHECKS SHOULD BE PLACED PERPENDICULAR TO THE FLOWLINE OF THE DITCH.
THE SILT FENCE SHOULD EXTEND FAR ENOUGH SO THAT THE GROUND LEVEL AT THE ENDS OF THE FENCE IS HIGHER THAN THE TOP OF THE LOW POINT OF THE FENCE. THIS PREVENTS WATER FROM FLOWING AROUND THE CHECK.
SILT FENCE DITCH CHECKS SHOULD NOT BE PLACED IN DITCHES WHERE HIGH FLOWS ARE EXPECTED. ROCK CHECKS SHOULD BE USED INSTEAD.
SILT FENCE SHOULD BE PLACED IN DITCHES WITH SLOPES OF 6% OR LESS. FOR SLOPES STEEPER THAN 6%, ROCK CHECKS SHOULD BE USED.

THE FOLLOWING TABLE PROVIDES CHECK SPACING FOR A GIVEN DITCH GRADE:

DITCH CHECK DITCH GRADE (%)	SPACING CHECK SPACING (FEET)
0.5	200
1.0	200
2.0	100
3.0	65
4.0	50
5.0	40
6.0	30

PROPER INSTALLATION METHOD:

EXCAVATE A TRENCH PERPENDICULAR TO THE DITCH FLOWLINE THAT IS AT LEAST 12" DEEP BY 6" WIDE.
EXTEND THE TRENCH IN A STRAIGHT LINE ALONG THE ENTIRE LENGTH OF THE PROPOSED DITCH CHECK.
PLACE THE SOIL ON THE UPSTREAM SIDE OF THE TRENCH FOR LATER USE.
ROLL OUT A CONTINUOUS LENGTH OF SILT FENCE FABRIC ON THE DOWNSTREAM SIDE OF THE TRENCH.
PLACE THE EDGE OF THE FABRIC IN THE TRENCH STARTING AT THE TOP UPSTREAM EDGE OF THE TRENCH.
LINE TWO SIDES OF THE TRENCH WITH THE FABRIC AS SHOWN ON DETAIL. BACKFILL OVER THE FABRIC IN THE TRENCH WITH THE EXCAVATED SOIL AND COMPACT. AFTER FILLING THE TRENCH, APPROXIMATELY 24" TO 36" OF SILT FENCE FABRIC SHOULD REMAIN EXPOSED.
LAY THE EXPOSED SILT FENCE ON THE UPSTREAM SIDE OF THE TRENCH TO CLEAR AN AREA FOR DRIVING IN THE POSTS. JUST DOWNSTREAM OF THE TRENCH, DRIVE POSTS INTO THE GROUND TO A DEPTH OF AT LEAST 24". PLACE POSTS NO MORE THAN 4' APART.
ATTACH THE SILT FENCE TO THE ANCHORED POST WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

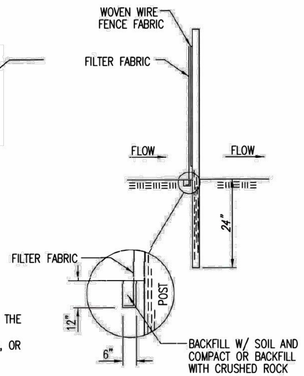
LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

WATER SHOULD FLOW THROUGH A SILT FENCE DITCH CHECK–NOT OVER IT. PLACE SILT FENCE IN DITCHES WHERE IT IS UNLIKELY THAT IT WILL BE OVERTOPPED. SILT FENCE INSTALLATIONS QUICKLY DETERIORATE WHEN WATER OVERTOPS THEM.
DO NOT PLACE SILT FENCE POSTS ON THE UPSTREAM SIDE OF THE SILT FENCE FABRIC. IN THIS CONFIGURATION, THE FORCE OF THE WATER IS NOT RESTRICTED BY THE POSTS, BUT ONLY BY THE STAPLES (WIRE, ZIP TIES, NAILS, ETC.). THE SILT FENCE WILL RIP AND FAIL.
DO NOT PLACE A SILT FENCE DITCH CHECK DIRECTLY IN FRONT OF A CULVERT OUTLET. IT WILL NOT STAND UP TO THE CONCENTRATED FLOW.
DO NOT PLACE SILT FENCE DITCH CHECKS IN DITCHES THAT WILL LIKELY EXPERIENCE HIGH FLOWS. THEY WILL NOT STAND UP TO CONCENTRATED FLOW.
FOLLOW PRESCRIBED DITCH CHECK SPACING GUIDELINES. IF SPACING GUIDELINES ARE EXCEEDED, EROSION WILL OCCUR BETWEEN THE DITCH CHECKS.
DO NOT ALLOW WATER TO FLOW AROUND THE DITCH CHECK. MAKE SURE THAT THE DITCH CHECK IS LONG ENOUGH SO THAT THE GROUND LEVEL AT THE ENDS OF THE FENCE IS HIGHER THAN THE LOW POINT ON THE TOP OF THE FENCE.
DO NOT PLACE SILT FENCE DITCH CHECKS IN CHANNELS WITH SHALLOW SOILS UNDERLAIN BY ROCK. IF THE CHECK IS NOT ANCHORED SUFFICIENTLY, IT WILL WASH OUT.

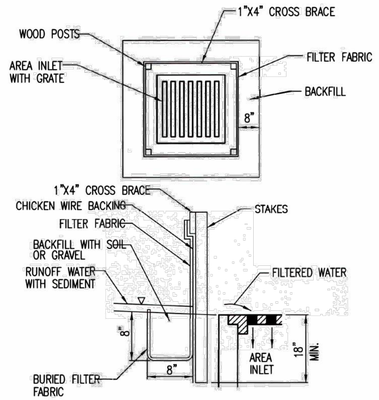
INSPECTION AND MAINTENANCE:

SILT FENCE DITCH CHECKS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHOULD BE ADDRESSED DURING EACH INSPECTION:

DOES WATER FLOW AROUND THE DITCH CHECK?
DOES WATER FLOW UNDER THE DITCH CHECK?
DOES THE SILT FENCE SAG EXCESSIVELY?
HAS THE SILT FENCE TORN OR BECOME DETACHED FROM THE POSTS?
DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE DITCH CHECK?



ANCHOR TRENCH DETAIL



SILT FENCE BARRIERS FOR AREA INLETS
(INLET PROTECTION)

MATERIAL SPECIFICATION:

SILT FENCE FABRIC SHOULD CONFORM TO THE AASHTO M288 96 SILT FENCE SPECIFICATION.
THE WIRE OR POLYMERIC MESH BACKING USED TO HELP SUPPORT THE SILT FENCE FABRIC SHOULD CONFORM TO THE AASHTO M288 96 SILT FENCE SPECIFICATION.
THE POSTS USED TO SUPPORT THE SILT FENCE FABRIC SHOULD BE A HARDWOOD MATERIAL WITH THE FOLLOWING MINIMUM DIMENSIONS: 2" SQUARE (NOMINAL) BY 4' LONG.
THE MATERIAL USED TO FRAME THE TOPS OF THE POSTS SHOULD BE 1" BY 4" BOARDS.
SILT FENCE FABRIC AND SUPPORT BACKING SHOULD BE ATTACHED TO THE WOODEN POSTS AND FRAME WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

PLACEMENT:

PLACE A SILT FENCE DROP INLET BARRIER IN A LOCATION WHERE IT IS UNLIKELY TO BE OVERTOPPED.
WATER SHOULD FLOW THROUGH SILT FENCE, NOT OVER IT. SILT FENCE BARRIERS FOR AREA INLETS OFTEN FAIL WHEN REPEATEDLY OVERTOPPED.
WHEN USED AS A BARRIER FOR AREA INLETS, SILT FENCE FABRIC AND POSTS MUST BE SUPPORTED AT THE TOP BY A WOODEN FRAME.
WHEN A SILT FENCE BARRIER FOR AREA INLETS IS LOCATED NEAR AN INLET THAT HAS STEEP APPROACH SLOPES, THE STORAGE CAPACITY BEHIND THE BARRIER IS DRASTICALLY REDUCED. TIMELY REMOVAL OF SEDIMENT MUST OCCUR FOR A BARRIER TO OPERATE PROPERLY IN THIS LOCATION.

PROPER INSTALLATION METHOD:

EXCAVATE A TRENCH AROUND THE PERIMETER OF THE AREA INLET THAT IS AT LEAST 8" DEEP BY 8" WIDE.
DRIVE POSTS TO A DEPTH OF AT LEAST 18" AROUND THE PERIMETER OF THE AREA INLET.
THE DISTANCE BETWEEN POSTS SHOULD BE 4' OR LESS. IF THE DISTANCE BETWEEN TWO ADJACENT CORNER POSTS IS MORE THAN 4', ADD ANOTHER POST(S) BETWEEN THEM.
CONNECT THE TOPS OF ALL THE POSTS WITH A WOODEN FRAME MADE OF 1" BY 4" BOARDS. USE NAILS OR SCREWS FOR FASTENING.
ATTACH THE WIRE OR POLYMERIC–MESH BACKING TO THE OUTSIDE OF THE POST/FRAME STRUCTURE WITH STAPLES, WIRE, ZIP TIES, OR NAILS.
ROLL OUT A CONTINUOUS LENGTH OF SILT FENCE FABRIC LONG ENOUGH TO WRAP AROUND THE PERIMETER OF THE AREA INLET. ADD MORE LENGTH FOR OVERLAPPING THE FABRIC JOINT. PLACE THE EDGE OF THE FABRIC IN THE TRENCH, STARTING AT THE OUTSIDE EDGE OF THE TRENCH. LINE ALL THREE SIDES OF THE TRENCH WITH THE FABRIC. BACKFILL OVER THE FABRIC IN THE TRENCH WITH THE EXCAVATED SOIL AND COMPACT. AFTER FILLING THE TRENCH, APPROXIMATELY 24" TO 36" OF SILT FENCE FABRIC SHOULD REMAIN EXPOSED.
ATTACH THE SILT FENCE TO THE OUTSIDE OF THE POST/FRAME STRUCTURE WITH STAPLES, WIRE, ZIP TIES, OR NAILS. THE JOINT SHOULD BE OVERLAPPED TO THE NEXT POST.

NOTE: WHEN A SILT FENCE BARRIER FOR AREA INLET IS PLACED IN A SHALLOW MEDIAN DITCH, MAKE SURE THAT THE TOP OF THE BARRIER IS NOT HIGHER THAN THE PAVED ROAD. IN THIS CONFIGURATION, WATER MAY SPREAD ONTO THE ROADWAY CAUSING A HAZARDOUS CONDITION.

LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

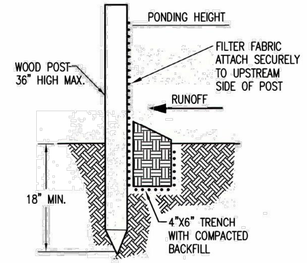
WATER SHOULD FLOW THROUGH A SILT FENCE BARRIER FOR AREA INLET–NOT OVER IT. PLACE A SILT FENCE BARRIER FOR AREA INLET IN A LOCATION WHERE IT IS UNLIKELY TO BE OVERTOPPED. SILT FENCE BARRIER FOR AREA INLETS OFTEN FAIL WHEN REPEATEDLY OVERTOPPED.
DO NOT PLACE POSTS ON THE OUTSIDE OF THE SILT FENCE BARRIER FOR AREA INLET. IN THIS CONFIGURATION, THE FORCE OF THE WATER IS NOT RESISTED BY THE POSTS, BUT ONLY BY THE STAPLES (WIRE, ZIP TIES, NAILS, ETC.). THE SILT FENCE WILL RIP AND FAIL.
DO NOT INSTALL SILT FENCE BARRIER FOR AREA INLETS WITHOUT FRAMING THE TOP OF THE POSTS.
THE CORNER POSTS AROUND AREA INLETS ARE STRESSED IN TWO DIRECTIONS WHEREAS A NORMAL SILT FENCE IS ONLY STRESSED IN ONE DIRECTION. THIS ADDED STRESS REQUIRES MORE SUPPORT.

INSPECTION AND MAINTENANCE:

SILT FENCE BARRIER FOR AREA INLETS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHOULD BE ADDRESSED DURING EACH INSPECTION:

DOES WATER FLOW UNDER THE SILT FENCE?
DOES THE SILT FENCE SAG EXCESSIVELY?
HAS THE SILT FENCE TORN OR BECOME DETACHED FROM THE POSTS?
DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE AREA INLET BARRIER?

GARY L. JANZEN LICENSED 1624 PROFESSIONAL ENGINEER KANSAS
07/31/25



SILT FENCE BARRIERS

MATERIAL SPECIFICATION:

SILT FENCE FABRIC SHOULD CONFORM TO THE AASHTO M288 96 SILT FENCE SPECIFICATION.
THE POSTS USED TO SUPPORT THE SILT FENCE FABRIC SHOULD BE A HARDWOOD MATERIAL WITH THE FOLLOWING MINIMUM DIMENSIONS: 2" SQUARE (NOMINAL) BY 4' LONG.
SILT FENCE FABRIC SHOULD BE ATTACHED TO THE WOODEN POSTS WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

PLACEMENT:

A SLOPE BARRIER SHOULD BE USED AT THE TOE OF A SLOPE WHEN A DITCH DOES NOT EXIST. THE SLOPE BARRIER SHOULD BE PLACED ON NEARLY LEVEL GROUND 5' TO 10' AWAY FROM THE TOE OF A SLOPE. THE BARRIER IS PLACED AWAY FROM THE TOE OF THE SLOPE TO PROVIDE ADEQUATE STORAGE FOR SETTLING OUT SEDIMENT.
WHEN PRACTICABLE, SILT FENCE SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW.
SILT FENCE SLOPE BARRIERS CAN ALSO BE PLACED ALONG RIGHT–OF–WAY FENCE LINES TO KEEP SEDIMENT FROM CROSSING ONTO ADJACENT PROPERTY. WHEN PLACED IN THIS MANNER, THE SLOPE BARRIER WILL NOT LIKELY FOLLOW CONTOURS.

PROPER INSTALLATION METHOD:

EXCAVATE A TRENCH THE LENGTH OF THE PLANNED SLOPE BARRIER THAT IS 6" DEEP BY 4" WIDE.
MAKE SURE THAT THE TRENCH IS EXCAVATED ALONG A SINGLE CONTOUR. WHEN PRACTICABLE, SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW. PLACE THE SOIL ON THE UPSLOPE SIDE OF THE TRENCH FOR LATER USE.
ROLL OUT A CONTINUOUS LENGTH OF SILT FENCE FABRIC ON THE DOWNSLOPE SIDE OF THE TRENCH.
PLACE THE EDGE OF THE FABRIC IN THE TRENCH STARTING AT THE TOP UPSLOPE EDGE. LINE ALL THREE SIDES OF THE TRENCH WITH THE FABRIC. BACKFILL OVER THE FABRIC IN THE TRENCH WITH THE EXCAVATED SOIL AND COMPACT. AFTER FILLING THE TRENCH, APPROXIMATELY 24" TO 36" OF SILT–FENCE FABRIC SHOULD REMAIN EXPOSED.
LAY THE EXPOSED SILT FENCE UPSLOPE OF THE TRENCH TO CLEAR AN AREA FOR DRIVING IN THE POSTS. JUST DOWNSLOPE OF THE TRENCH, DRIVE POSTS INTO THE GROUND TO A DEPTH OF AT LEAST 18".
PLACE POSTS NO MORE THAN 4' APART.
ATTACH THE SILT FENCE TO THE ANCHORED POST WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

WHEN PRACTICABLE, DO NOT PLACE SILT FENCE SLOPE BARRIERS ACROSS CONTOURS. SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW. WHEN THE FLOW CONCENTRATES, IT OVERTOPS THE BARRIER AND THE SILT FENCE SLOPE BARRIER QUICKLY DETERIORATES.
DO NOT PLACE SILT–FENCE POSTS ON THE UPSLOPE SIDE OF THE SILT FENCE FABRIC. IN THIS CONFIGURATION, THE FORCE OF THE WATER IS NOT RESTRICTED BY THE POSTS, BUT ONLY BY THE STAPLES (WIRE, ZIP TIES, NAILS, ETC.). THE SILT FENCE WILL RIP AND FAIL.
DO NOT PLACE SILT FENCE SLOPE BARRIERS IN AREAS WITH SHALLOW SOILS UNDERLAIN BY ROCK. IF THE BARRIER IS NOT SUFFICIENTLY ANCHORED, IT WILL WASH OUT.
SILT FENCE SLOPE BARRIERS MUST BE DUG INTO THE GROUND–SILT FENCE AT GROUND LEVEL DOES NOT WORK BECAUSE WATER WILL FLOW UNDERNEATH.

INSPECTION AND MAINTENANCE:

SILT FENCE SLOPE BARRIERS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHOULD BE ADDRESSED DURING EACH INSPECTION:

ARE THERE ANY POINTS ALONG THE SLOPE BARRIER WHERE WATER IS CONCENTRATING?
DOES WATER FLOW UNDER THE SLOPE BARRIER?
DO THE SILT FENCES SAG EXCESSIVELY?
HAS THE SILT FENCE TORN OR BECOME DETACHED FROM THE POSTS?
DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE SLOPE BARRIER?

REVISION DATE: MAY 2013

CITY OF WICHITA
PUBLIC WORKS & UTILITIES ENGINEERING DIVISION

SILT FENCE DITCH CHECK AND BARRIER DETAILS

CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER	OCA NUMBER	DATE

CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

SHEET

SW–502

VINCENT CHESNUT LICENSED 23419 08/05/2025 KANSAS PROFESSIONAL ENGINEER

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CITY OF WICHITA
17TH STREET

EROSION CONTROL DETAILS 3

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

DESIGN: BDC DRAWN: BDC

DATE: August 5, 2025

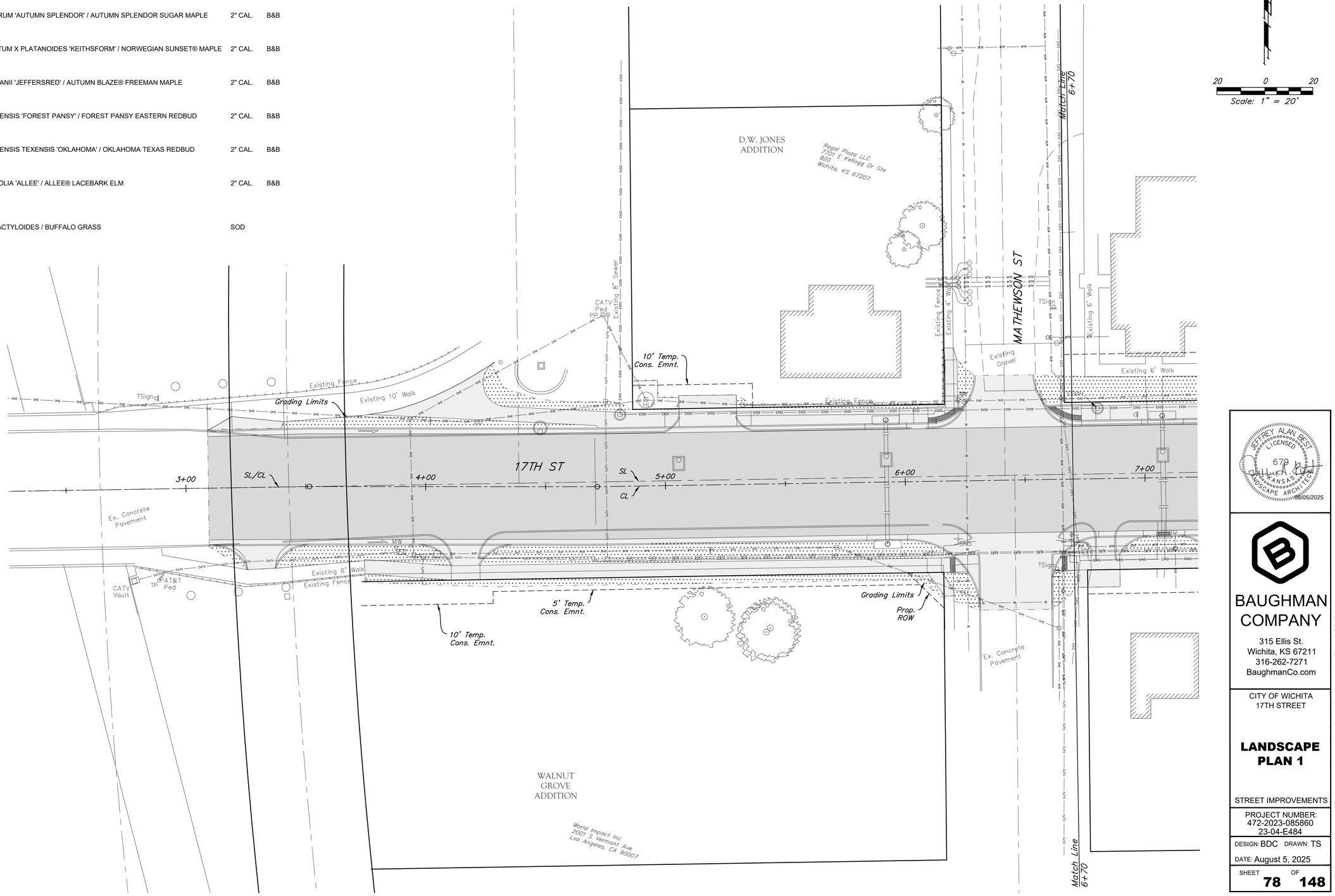
SHEET 77 OF 148

File: E:\Projects\Wichita 17th St. I-135 to Hillside (23-04-E484)\Engineering\DWG\EC DETAILS.dwg

PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER
TREES				
	ACE FLM	ACER GINNALA 'FLAME' / FLAME AMUR MAPLE	2" CAL.	B&B
	ACE ASP	ACER SACCHARUM 'AUTUMN SPLENDOR' / AUTUMN SPLENDOR SUGAR MAPLE	2" CAL.	B&B
	ACE WGI	ACER TRUNCATUM X PLATANOIDES 'KEITHSFORM' / NORWEGIAN SUNSET® MAPLE	2" CAL.	B&B
	ACE ABZ	ACER X FREEMANII 'JEFFERSRED' / AUTUMN BLAZE® FREEMAN MAPLE	2" CAL.	B&B
	CER FOR	CERCIS CANADENSIS 'FOREST PANSY' / FOREST PANSY EASTERN REDBUD	2" CAL.	B&B
	CER OKL	CERCIS CANADENSIS TEXENSIS 'OKLAHOMA' / OKLAHOMA TEXAS REDBUD	2" CAL.	B&B
	ULM ALL	ULMUS PARVIFOLIA 'ALLEE' / ALLEE® LACEBARK ELM	2" CAL.	B&B
GROUND COVERS				
	BOU DAC	BOUTELOUA DACTYLOIDES / BUFFALO GRASS	SOD	

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	78	148



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KANSAS
LANDSCAPE ARCHITECT
08/05/2025

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CITY OF WICHITA
17TH STREET

LANDSCAPE PLAN 1

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

DESIGN: BDC DRAWN: TS

DATE: August 5, 2025

SHEET 78 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\LANDSCAPE PLAN.dwg

PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER
TREES				
+	ACE FLM	ACER GINNALA 'FLAME' / FLAME AMUR MAPLE	2" CAL.	B&B
•	ACE ASP	ACER SACCHARUM 'AUTUMN SPLENDOR' / AUTUMN SPLENDOR SUGAR MAPLE	2" CAL.	B&B
•	ACE WGI	ACER TRUNCATUM X PLATANOIDES 'KEITHSFORM' / NORWEGIAN SUNSET® MAPLE	2" CAL.	B&B
•	ACE ABZ	ACER X FREEMANII 'JEFFERSRED' / AUTUMN BLAZE® FREEMAN MAPLE	2" CAL.	B&B
•	CER FOR	CERCIS CANADENSIS 'FOREST PANSY' / FOREST PANSY EASTERN REDBUD	2" CAL.	B&B
•	CER OKL	CERCIS CANADENSIS TEXENSIS 'OKLAHOMA' / OKLAHOMA TEXAS REDBUD	2" CAL.	B&B
•	ULM ALL	ULMUS PARVIFOLIA 'ALLEE' / ALLEE® LACEBARK ELM	2" CAL.	B&B
GROUND COVERS				
⋯	BOU DAC	BOUTELOUA DACTYLOIDES / BUFFALO GRASS	SOD	

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	79	148

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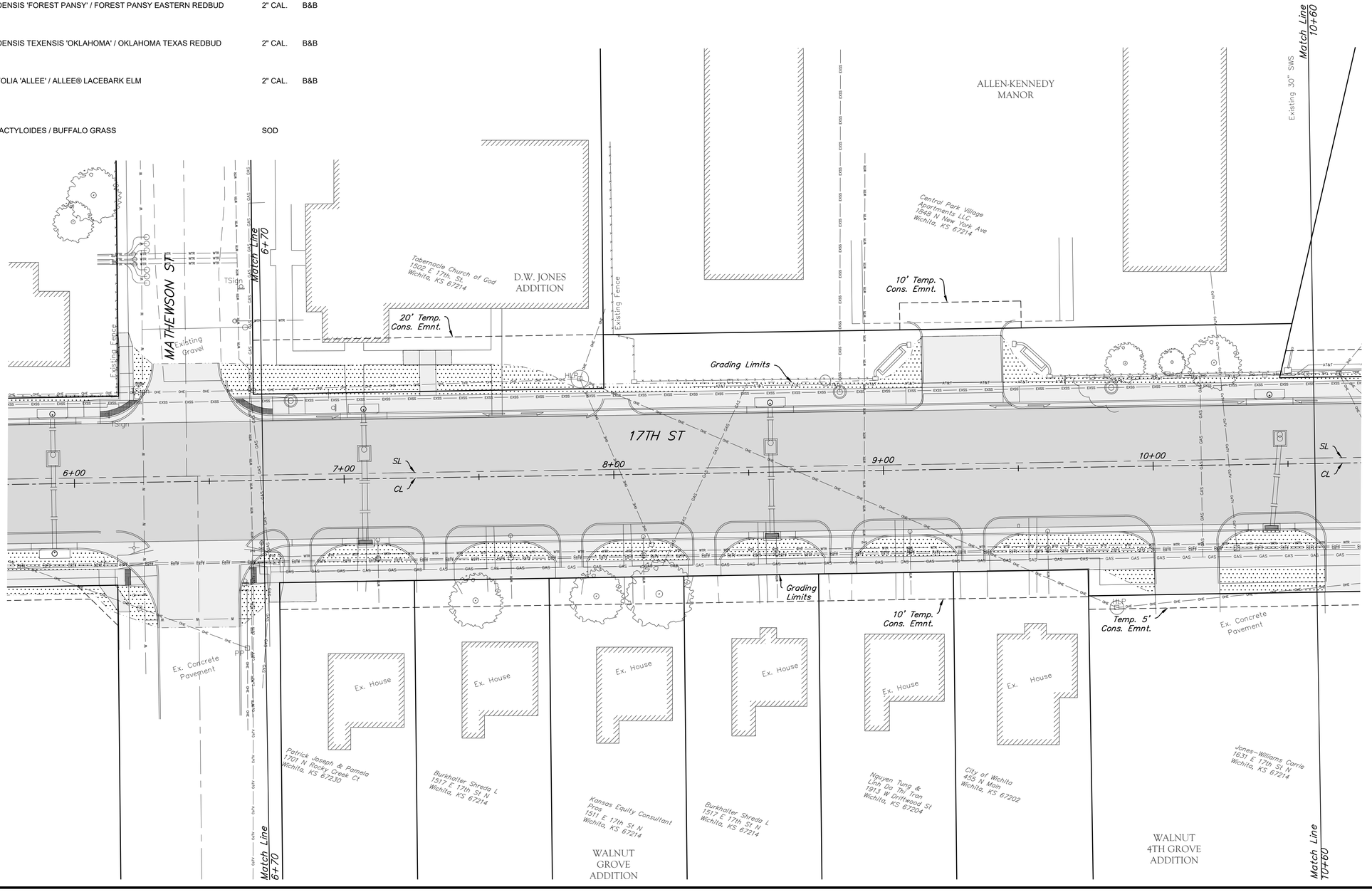
Scale: 1" = 20'



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CITY OF WICHITA
17TH STREET

LANDSCAPE PLAN 2

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

DESIGN: BDC DRAWN: TS

DATE: August 5, 2025

SHEET 79 OF 148

File: E:\Projects\Wichita 17th St. I-135 to Hillside (23-04-E484)\Engineering\DWG\LANDSCAPE PLAN.dwg

PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER
TREES				
	ACE FLM	ACER GINNALA 'FLAME' / FLAME AMUR MAPLE	2" CAL.	B&B
	ACE ASP	ACER SACCHARUM 'AUTUMN SPLENDOR' / AUTUMN SPLENDOR SUGAR MAPLE	2" CAL.	B&B
	ACE WGI	ACER TRUNCATUM X PLATANOIDES 'KEITHSFORM' / NORWEGIAN SUNSET® MAPLE	2" CAL.	B&B
	ACE ABZ	ACER X FREEMANII 'JEFFERSRED' / AUTUMN BLAZE® FREEMAN MAPLE	2" CAL.	B&B
	CER FOR	CERCIS CANADENSIS 'FOREST PANSY' / FOREST PANSY EASTERN REDBUD	2" CAL.	B&B
	CER OKL	CERCIS CANADENSIS TEXENSIS 'OKLAHOMA' / OKLAHOMA TEXAS REDBUD	2" CAL.	B&B
	ULM ALL	ULMUS PARVIFOLIA 'ALLEE' / ALLEE® LACEBARK ELM	2" CAL.	B&B
GROUND COVERS				
	BOU DAC	BOUTELOUA DACTYLOIDES / BUFFALO GRASS	SOD	

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	80	148

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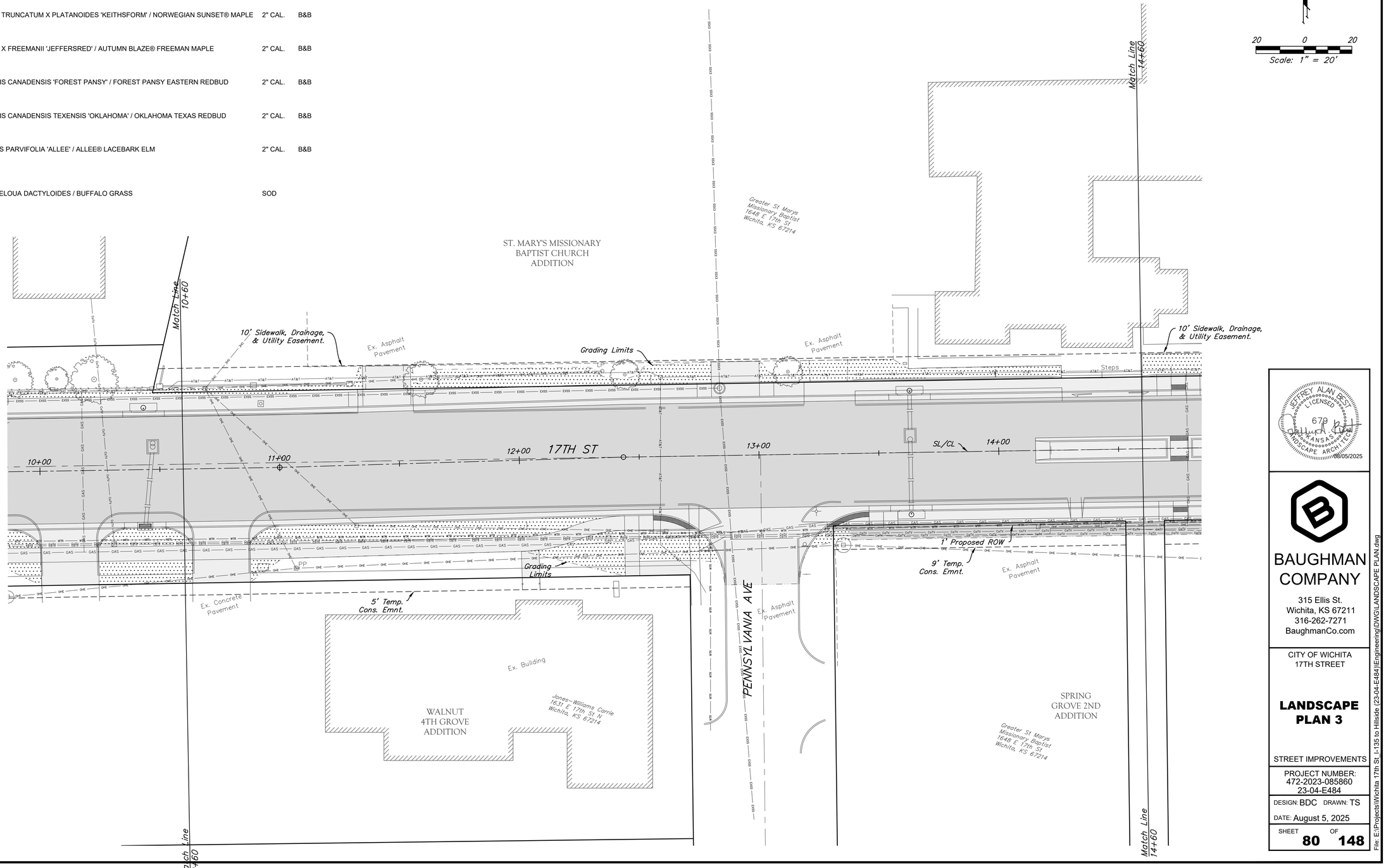
Scale: 1" = 20'



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CITY OF WICHITA
17TH STREET

LANDSCAPE PLAN 3

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

DESIGN: BDC DRAWN: TS

DATE: August 5, 2025

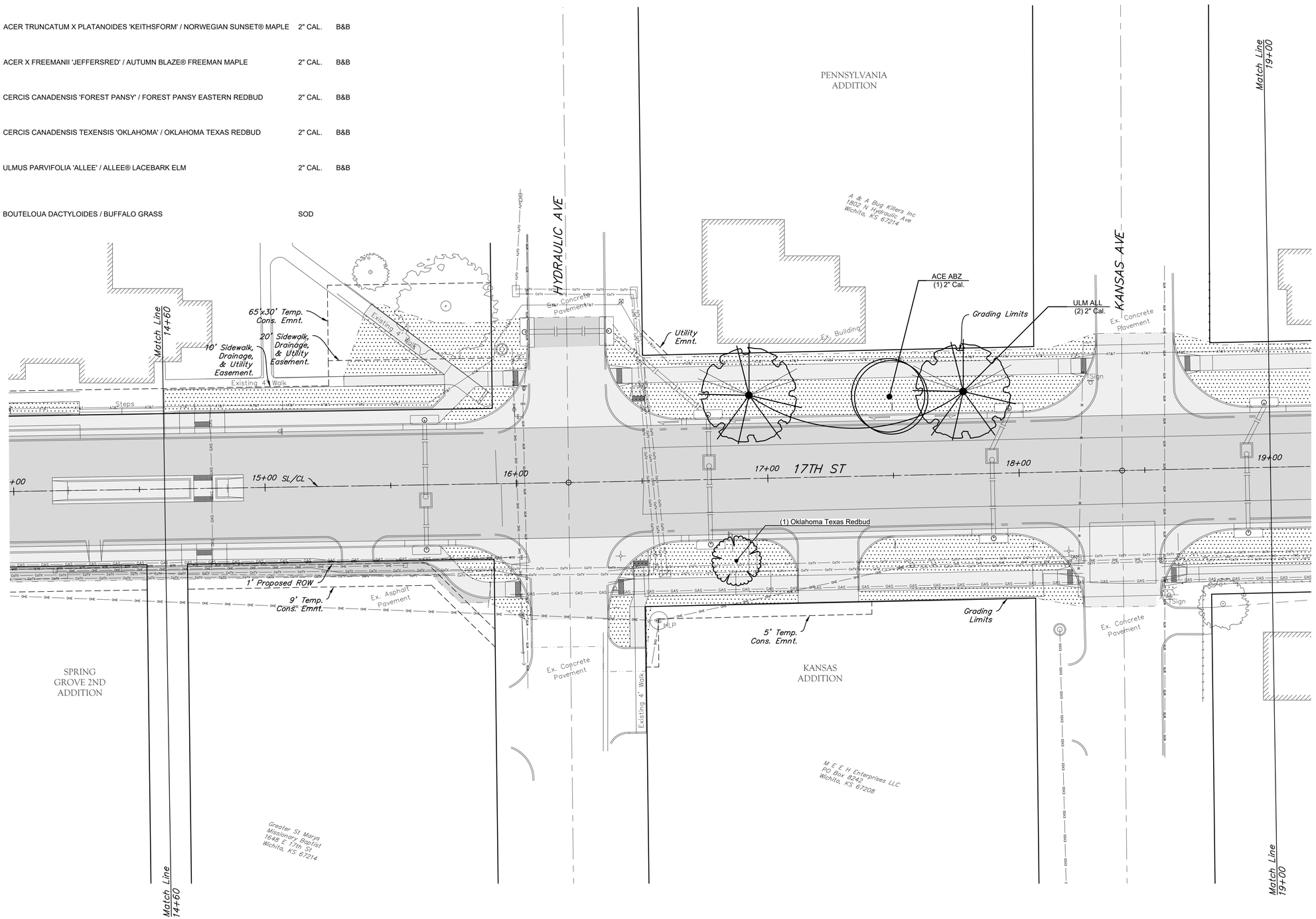
SHEET 80 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\LANDSCAPE PLAN.dwg

PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER
TREES				
	ACE FLM	ACER GINNALA 'FLAME' / FLAME AMUR MAPLE	2" CAL.	B&B
	ACE ASP	ACER SACCHARUM 'AUTUMN SPLENDOR' / AUTUMN SPLENDOR SUGAR MAPLE	2" CAL.	B&B
	ACE WGI	ACER TRUNCATUM X PLATANOIDES 'KEITHSFORM' / NORWEGIAN SUNSET® MAPLE	2" CAL.	B&B
	ACE ABZ	ACER X FREEMANII 'JEFFERSRED' / AUTUMN BLAZE® FREEMAN MAPLE	2" CAL.	B&B
	CER FOR	CERCIS CANADENSIS 'FOREST PANSY' / FOREST PANSY EASTERN REDBUD	2" CAL.	B&B
	CER OKL	CERCIS CANADENSIS TEXENSIS 'OKLAHOMA' / OKLAHOMA TEXAS REDBUD	2" CAL.	B&B
	ULM ALL	ULMUS PARVIFOLIA 'ALLEE' / ALLEE® LACEBARK ELM	2" CAL.	B&B
GROUND COVERS				
	BOU DAC	BOUTELOUA DACTYLOIDES / BUFFALO GRASS	SOD	

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	81	148



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08/05/2025

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CITY OF WICHITA
17TH STREET

LANDSCAPE PLAN 4

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

DESIGN: BDC DRAWN: TS

DATE: August 5, 2025

SHEET 81 OF 148

File: E:\Projects\Wichita 17th St I-135 to Hillside (23-04-E484)\Engineering\DWG\LANDSCAPE PLAN.dwg

PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER
TREES				
	ACE FLM	ACER GINNALA 'FLAME' / FLAME AMUR MAPLE	2" CAL.	B&B
	ACE ASP	ACER SACCHARUM 'AUTUMN SPLENDOR' / AUTUMN SPLENDOR SUGAR MAPLE	2" CAL.	B&B
	ACE WGI	ACER TRUNCATUM X PLATANOIDES 'KEITHSFORM' / NORWEGIAN SUNSET® MAPLE	2" CAL.	B&B
	ACE ABZ	ACER X FREEMANII 'JEFFERSRED' / AUTUMN BLAZE® FREEMAN MAPLE	2" CAL.	B&B
	CER FOR	CERCIS CANADENSIS 'FOREST PANSY' / FOREST PANSY EASTERN REDBUD	2" CAL.	B&B
	CER OKL	CERCIS CANADENSIS TEXENSIS 'OKLAHOMA' / OKLAHOMA TEXAS REDBUD	2" CAL.	B&B
	ULM ALL	ULMUS PARVIFOLIA 'ALLEE' / ALLEE® LACEBARK ELM	2" CAL.	B&B
GROUND COVERS				
	BOU DAC	BOUTELOUA DACTYLOIDES / BUFFALO GRASS	SOD	

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	82	148

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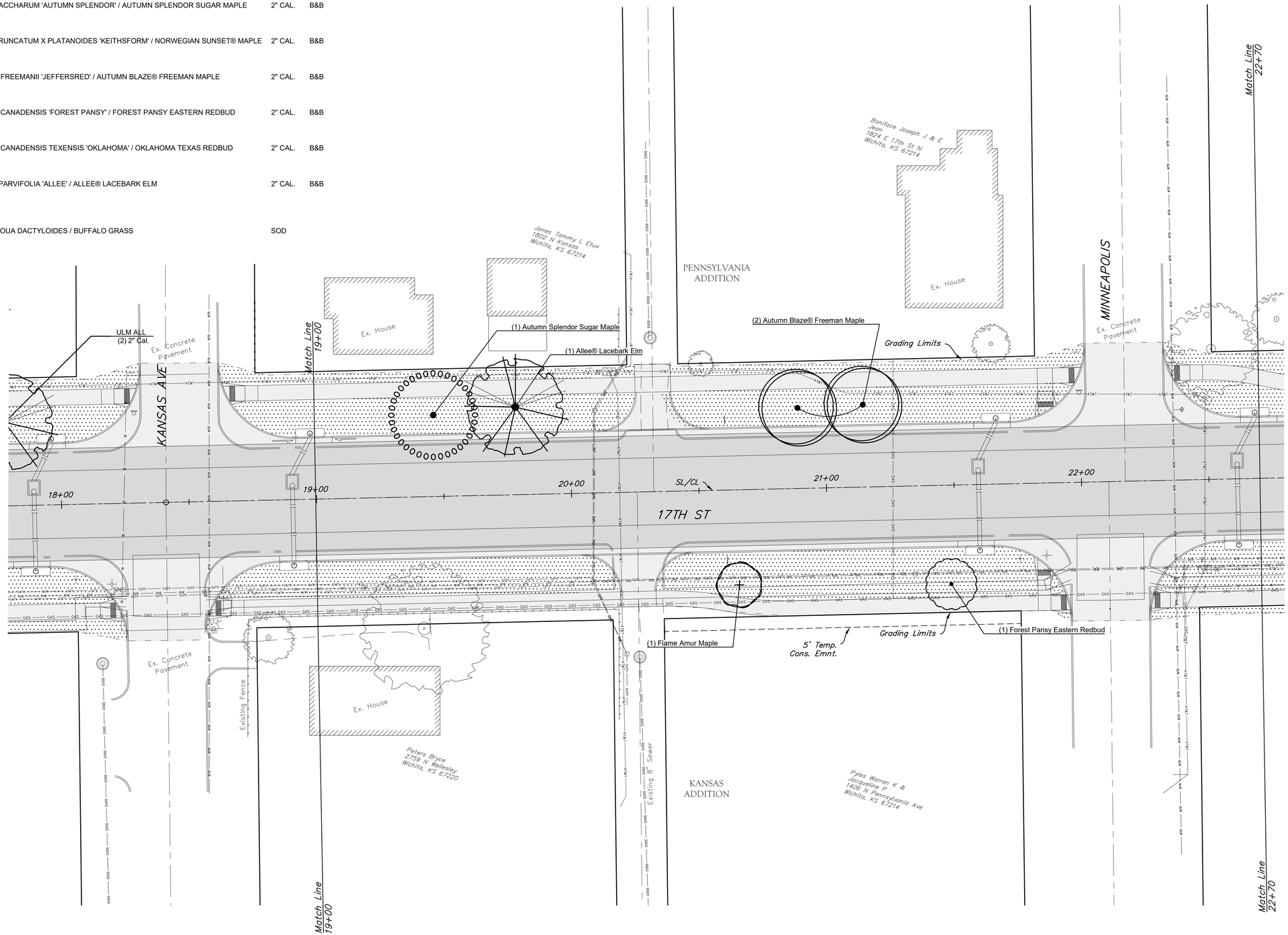
Scale: 1" = 20'



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CITY OF WICHITA
17TH STREET

LANDSCAPE PLAN 5

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

DESIGN: BDC DRAWN: TS

DATE: August 5, 2025

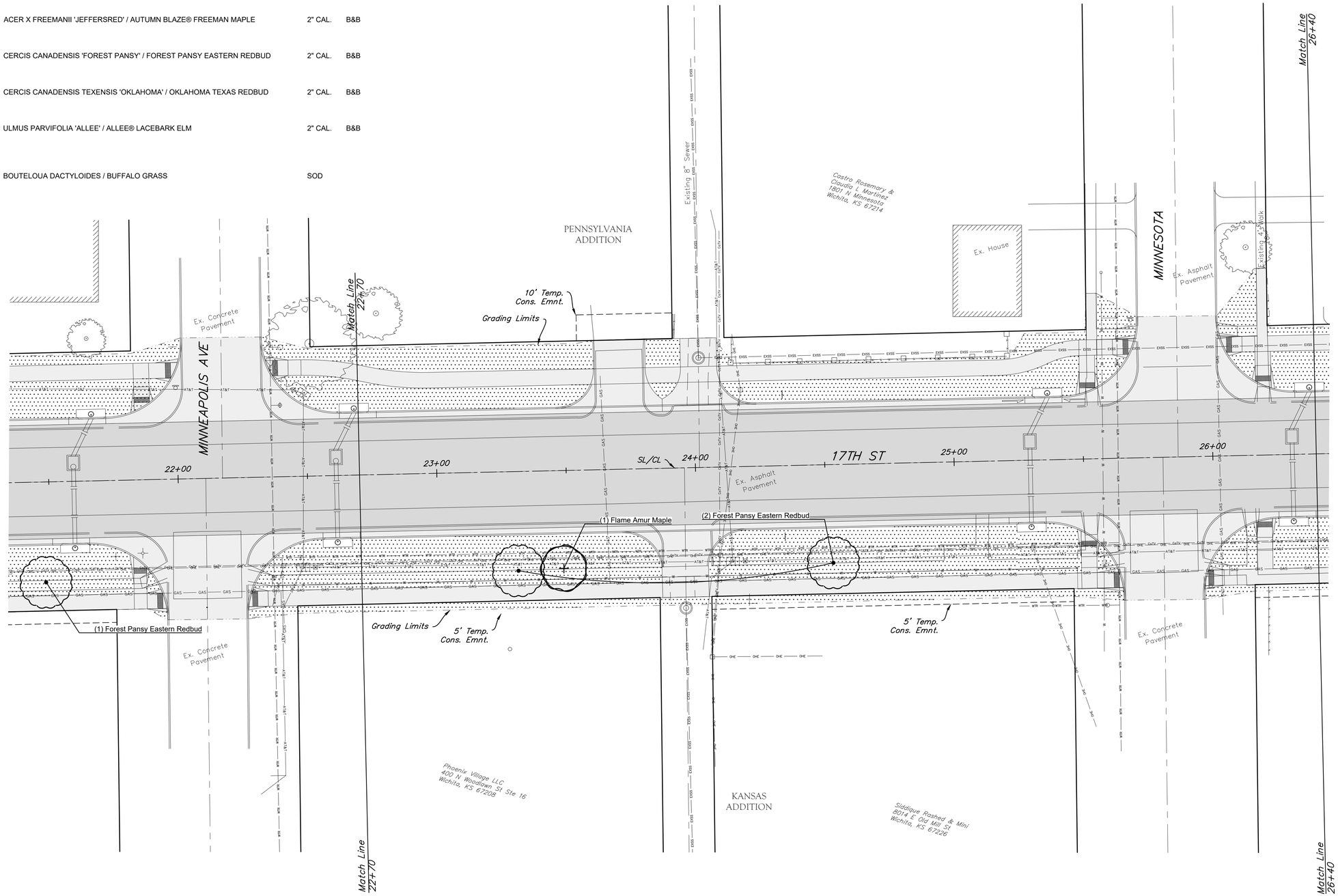
SHEET 82 OF 148

File: E:\Projects\Wichita 17th St. I-135 to Hillside (23-04-E484)\Engineering\DWG\LANDSCAPE PLAN.dwg

PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER
TREES				
+	ACE FLM	ACER GINNALA 'FLAME' / FLAME AMUR MAPLE	2" CAL.	B&B
•	ACE ASP	ACER SACCHARUM 'AUTUMN SPLENDOR' / AUTUMN SPLENDOR SUGAR MAPLE	2" CAL.	B&B
•	ACE WGI	ACER TRUNCATUM X PLATANOIDES 'KEITHSFORM' / NORWEGIAN SUNSET® MAPLE	2" CAL.	B&B
•	ACE ABZ	ACER X FREEMANII 'JEFFERSRED' / AUTUMN BLAZE® FREEMAN MAPLE	2" CAL.	B&B
•	CER FOR	CERCIS CANADENSIS 'FOREST PANSY' / FOREST PANSY EASTERN REDBUD	2" CAL.	B&B
•	CER OKL	CERCIS CANADENSIS TEXENSIS 'OKLAHOMA' / OKLAHOMA TEXAS REDBUD	2" CAL.	B&B
	ULM ALL	ULMUS PARVIFOLIA 'ALLEE' / ALLEE® LACEBARK ELM	2" CAL.	B&B
GROUND COVERS				
	BOU DAC	BOUTELOUA DACTYLOIDES / BUFFALO GRASS	SOD	

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	83	148



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Scale: 1" = 20'

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CITY OF WICHITA
17TH STREET

LANDSCAPE PLAN 6

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

DESIGN: BDC DRAWN: TS

DATE: August 5, 2025

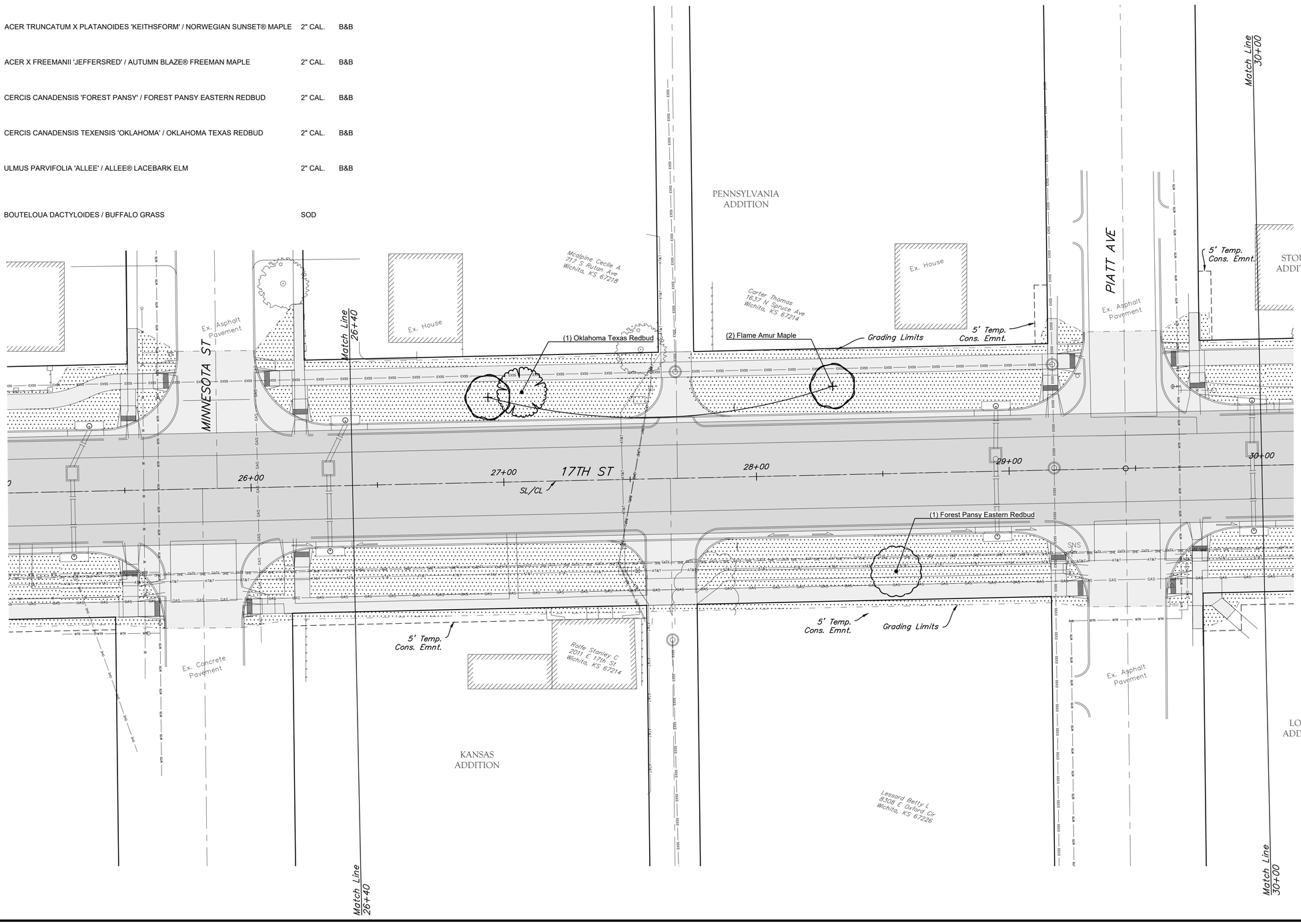
SHEET 83 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\LANDSCAPE PLAN.dwg

PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER
TREES				
+	ACE FLM	ACER GINNALA 'FLAME' / FLAME AMUR MAPLE	2" CAL.	B&B
•	ACE ASP	ACER SACCHARUM 'AUTUMN SPLENDOR' / AUTUMN SPLENDOR SUGAR MAPLE	2" CAL.	B&B
•	ACE WGI	ACER TRUNCATUM X PLATANOIDES 'KEITHSFORM' / NORWEGIAN SUNSET® MAPLE	2" CAL.	B&B
•	ACE ABZ	ACER X FREEMANII 'JEFFERSRED' / AUTUMN BLAZE® FREEMAN MAPLE	2" CAL.	B&B
•	CER FOR	CERCIS CANADENSIS 'FOREST PANSY' / FOREST PANSY EASTERN REDBUD	2" CAL.	B&B
•	CER OKL	CERCIS CANADENSIS TEXENSIS 'OKLAHOMA' / OKLAHOMA TEXAS REDBUD	2" CAL.	B&B
•	ULM ALL	ULMUS PARVIFOLIA 'ALLEE' / ALLEE® LACEBARK ELM	2" CAL.	B&B
GROUND COVERS				
⋯	BOU DAC	BOUTELOUA DACTYLOIDES / BUFFALO GRASS	SOD	

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	84	148



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Scale: 1" = 20'

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CITY OF WICHITA
17TH STREET

LANDSCAPE PLAN 7

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

DESIGN: BDC DRAWN: TS

DATE: August 5, 2025

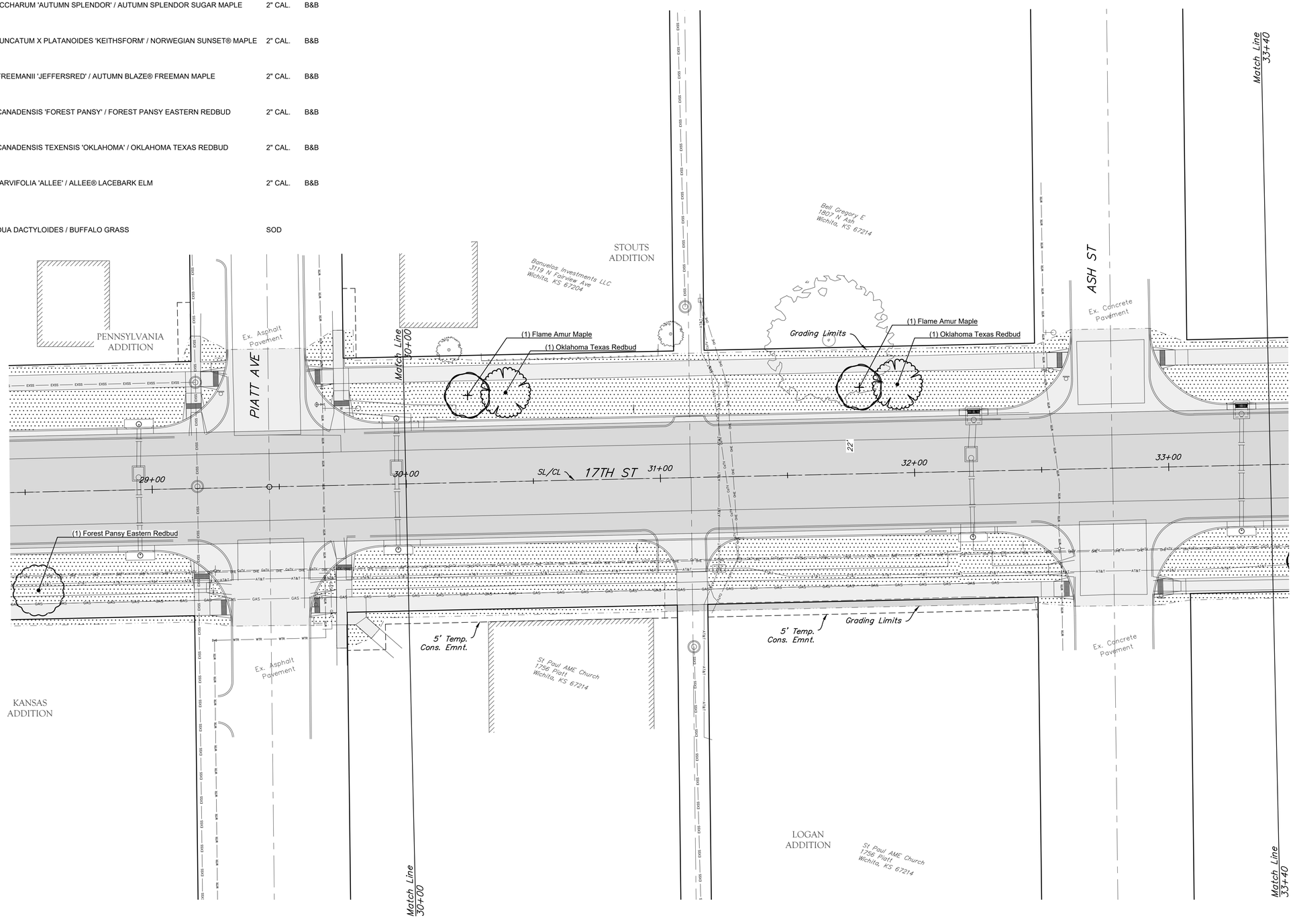
SHEET 84 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\LANDSCAPE PLAN.dwg

PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER
TREES				
	ACE FLM	ACER GINNALA 'FLAME' / FLAME AMUR MAPLE	2" CAL.	B&B
	ACE ASP	ACER SACCHARUM 'AUTUMN SPLENDOR' / AUTUMN SPLENDOR SUGAR MAPLE	2" CAL.	B&B
	ACE WGI	ACER TRUNCATUM X PLATANOIDES 'KEITHSFORM' / NORWEGIAN SUNSET® MAPLE	2" CAL.	B&B
	ACE ABZ	ACER X FREEMANII 'JEFFERSRED' / AUTUMN BLAZE® FREEMAN MAPLE	2" CAL.	B&B
	CER FOR	CERCIS CANADENSIS 'FOREST PANSY' / FOREST PANSY EASTERN REDBUD	2" CAL.	B&B
	CER OKL	CERCIS CANADENSIS TEXENSIS 'OKLAHOMA' / OKLAHOMA TEXAS REDBUD	2" CAL.	B&B
	ULM ALL	ULMUS PARVIFOLIA 'ALLEE' / ALLEE® LACEBARK ELM	2" CAL.	B&B
GROUND COVERS				
	BOU DAC	BOUTELOUA DACTYLOIDES / BUFFALO GRASS	SOD	

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	85	148



JEFFREY ALAN BEST
LICENSED
679
KANSAS
LANDSCAPE ARCHITECT
08/05/2025

BAUGHMAN COMPANY
315 Ellis St.
Wichita, KS 67211
316-262-7271
BaughmanCo.com

CITY OF WICHITA
17TH STREET

LANDSCAPE PLAN 8

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

DESIGN: BDC DRAWN: TS

DATE: August 5, 2025

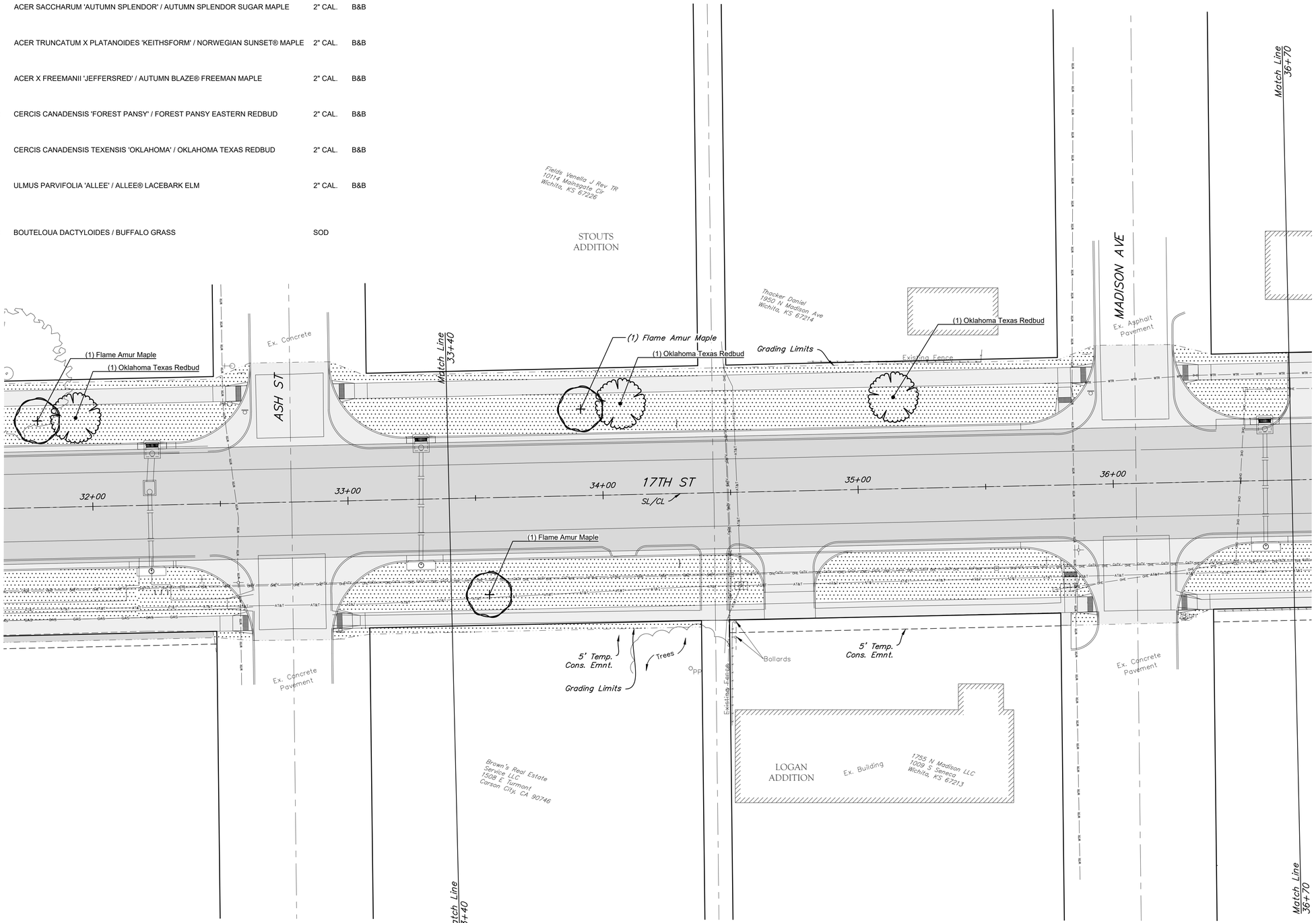
SHEET 85 OF 148

File: E:\Projects\Wichita 17th St. I-135 to Hillside (23-04-E484)\Engineering\DWG\LANDSCAPE PLAN.dwg

PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER
TREES				
+	ACE FLM	ACER GINNALA 'FLAME' / FLAME AMUR MAPLE	2" CAL.	B&B
•	ACE ASP	ACER SACCHARUM 'AUTUMN SPLENDOR' / AUTUMN SPLENDOR SUGAR MAPLE	2" CAL.	B&B
•	ACE WGI	ACER TRUNCATUM X PLATANOIDES 'KEITHSFORM' / NORWEGIAN SUNSET® MAPLE	2" CAL.	B&B
•	ACE ABZ	ACER X FREEMANII 'JEFFERSRED' / AUTUMN BLAZE® FREEMAN MAPLE	2" CAL.	B&B
•	CER FOR	CERCIS CANADENSIS 'FOREST PANSY' / FOREST PANSY EASTERN REDBUD	2" CAL.	B&B
•	CER OKL	CERCIS CANADENSIS TEXENSIS 'OKLAHOMA' / OKLAHOMA TEXAS REDBUD	2" CAL.	B&B
•	ULM ALL	ULMUS PARVIFOLIA 'ALLEE' / ALLEE® LACEBARK ELM	2" CAL.	B&B
GROUND COVERS				
	BOU DAC	BOUTELOUA DACTYLOIDES / BUFFALO GRASS	SOD	

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	86	148



20 0 20

Scale: 1" = 20'

08/05/2025

BAUGHMAN COMPANY

315 Ellis St.
Wichita, KS 67211
316-262-7271
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CITY OF WICHITA
17TH STREET

LANDSCAPE PLAN 9

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

DESIGN: BDC DRAWN: TS

DATE: August 5, 2025

SHEET 86 OF 148

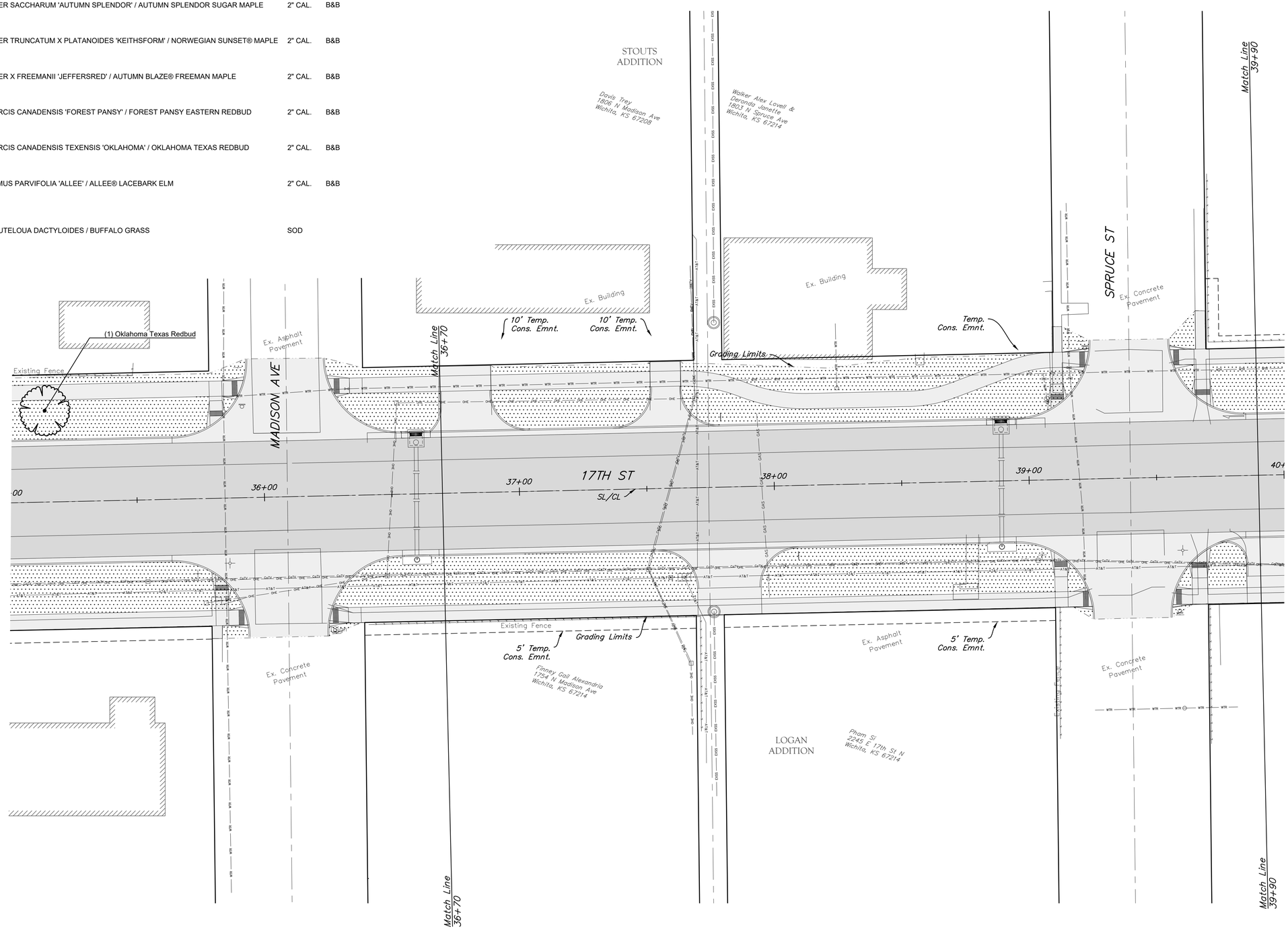
File: E:\Projects\Wichita 17th St. I-135 to Hillside (23-04-E484)\Engineering\DWG\LANDSCAPE PLAN.dwg

PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER
TREES				
	ACE FLM	ACER GINNALA 'FLAME' / FLAME AMUR MAPLE	2" CAL.	B&B
	ACE ASP	ACER SACCHARUM 'AUTUMN SPLENDOR' / AUTUMN SPLENDOR SUGAR MAPLE	2" CAL.	B&B
	ACE WGI	ACER TRUNCATUM X PLATANOIDES 'KEITHSFORM' / NORWEGIAN SUNSET® MAPLE	2" CAL.	B&B
	ACE ABZ	ACER X FREEMANII 'JEFFERSRED' / AUTUMN BLAZE® FREEMAN MAPLE	2" CAL.	B&B
	CER FOR	CERCIS CANADENSIS 'FOREST PANSY' / FOREST PANSY EASTERN REDBUD	2" CAL.	B&B
	CER OKL	CERCIS CANADENSIS TEXENSIS 'OKLAHOMA' / OKLAHOMA TEXAS REDBUD	2" CAL.	B&B
	ULM ALL	ULMUS PARVIFOLIA 'ALLEE' / ALLEE® LACEBARK ELM	2" CAL.	B&B
GROUND COVERS				
	BOU DAC	BOUTELOUA DACTYLOIDES / BUFFALO GRASS	SOD	

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	87	148

20 0 20
Scale: 1" = 20'



JEFFREY ALAN BDC LICENSED 678 KANSAS LANDSCAPE ARCHITECT
08/05/2025

BAUGHMAN COMPANY
315 Ellis St.
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CITY OF WICHITA
17TH STREET

LANDSCAPE PLAN 10

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

DESIGN: BDC DRAWN: TS

DATE: August 5, 2025

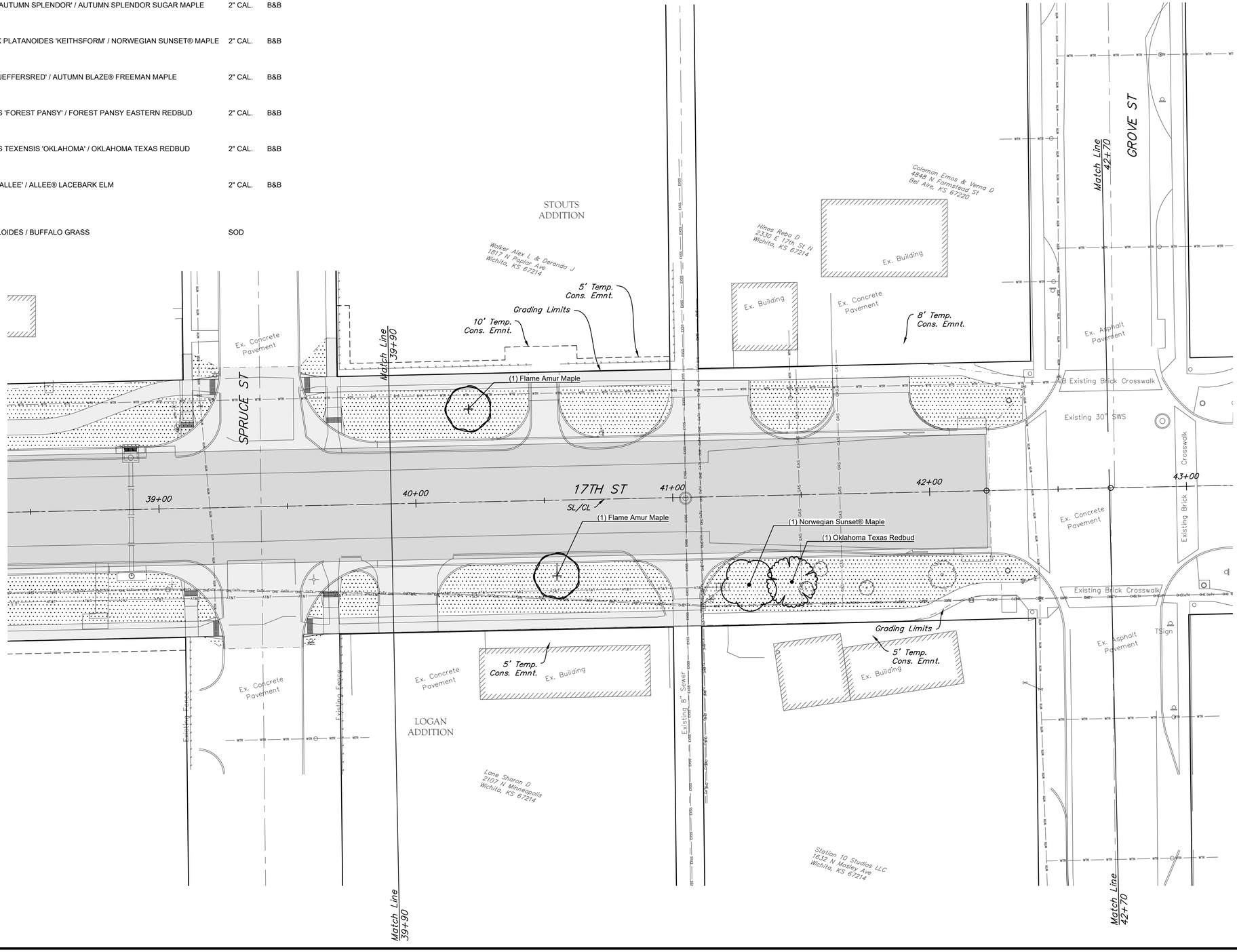
SHEET 87 OF 148

File: E:\Projects\Wichita 17th St. I-135 to Hillside (23-04-E484)\Engineering\DWG\LANDSCAPE PLAN.dwg

PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER
TREES				
+	ACE FLM	ACER GINNALA 'FLAME' / FLAME AMUR MAPLE	2" CAL.	B&B
•	ACE ASP	ACER SACCHARUM 'AUTUMN SPLENDOR' / AUTUMN SPLENDOR SUGAR MAPLE	2" CAL.	B&B
•	ACE WGI	ACER TRUNCATUM X PLATANOIDES 'KEITHSFORM' / NORWEGIAN SUNSET® MAPLE	2" CAL.	B&B
•	ACE ABZ	ACER X FREEMANII 'JEFFERSRED' / AUTUMN BLAZE® FREEMAN MAPLE	2" CAL.	B&B
•	CER FOR	CERCIS CANADENSIS 'FOREST PANSY' / FOREST PANSY EASTERN REDBUD	2" CAL.	B&B
•	CER OKL	CERCIS CANADENSIS TEXENSIS 'OKLAHOMA' / OKLAHOMA TEXAS REDBUD	2" CAL.	B&B
✳	ULM ALL	ULMUS PARVIFOLIA 'ALLEE' / ALLEE® LACEBARK ELM	2" CAL.	B&B
GROUND COVERS				
⋰⋱	BOU DAC	BOUTELOUA DACTYLOIDES / BUFFALO GRASS	SOD	

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	88	148



20 0 20

Scale: 1" = 20'

JEFFERY ALAN BDT LICENSED 679 KANSAS LANDSCAPE ARCHITECT
08/05/2025

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CITY OF WICHITA
17TH STREET

LANDSCAPE PLAN 11

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

DESIGN: BDC DRAWN: TS

DATE: August 5, 2025

SHEET 88 OF 148

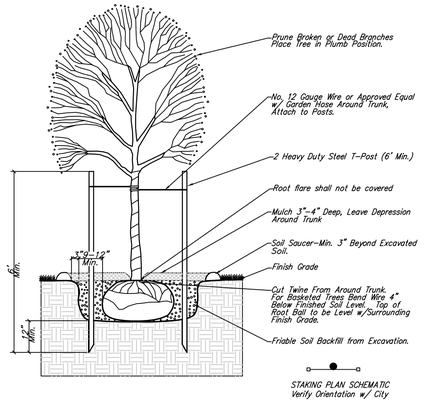
File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\LANDSCAPE PLAN.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	89	148

PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER	QTY
TREES					
	ACE FLM	ACER GINNALA 'FLAME' / FLAME AMUR MAPLE	2" CAL.	B&B	13
	ACE ASP	ACER SACCHARUM 'AUTUMN SPLENDOR' / AUTUMN SPLENDOR SUGAR MAPLE	2" CAL.	B&B	1
	ACE WGI	ACER TRUNCATUM X PLATANOIDES 'KEITHSFORM' / NORWEGIAN SUNSET® MAPLE	2" CAL.	B&B	1
	ACE ABZ	ACER X FREEMANII 'JEFFERSRED' / AUTUMN BLAZE® FREEMAN MAPLE	2" CAL.	B&B	3
	CER FOR	CERCIS CANADENSIS 'FOREST PANSY' / FOREST PANSY EASTERN REDBUD	2" CAL.	B&B	4
	CER OKL	CERCIS CANADENSIS TEXENSIS 'OKLAHOMA' / OKLAHOMA TEXAS REDBUD	2" CAL.	B&B	7
	ULM ALL	ULMUS PARVIFOLIA 'ALLEE' / ALLEE® LACEBARK ELM	2" CAL.	B&B	3
GROUND COVERS					
	BOU DAC	BOUTELOUA DACTYLOIDES / BUFFALO GRASS	SOD		92,081 SF

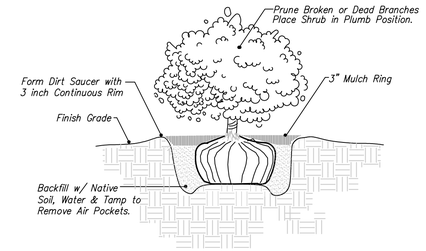
For information only.



1 TREE PLANTING & STAKING DETAIL

Deciduous Trees Larger than 2" Cal.
Evergreen Trees Larger than 6' Height

No Scale

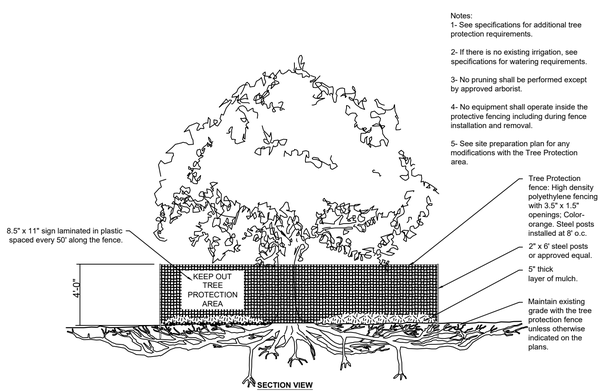


2 SHRUB PLANTING DETAIL

5 Gallon and Smaller

No Scale

Bid Items		
Bid Item	*Quantity*	*Unit*
Sodding	*1*	*LS*
Deciduous Tree – 2" Caliper	*30*	*EA*



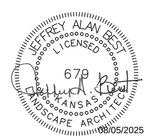
3 TREE PROTECTION DETAIL

URBAN TREE FOUNDATION © 2014
OPEN SOURCE FREE TO USE

No Scale

LANDSCAPE NOTES

1. All landscape work shall be done in accordance with industry standards and City of Wichita Specifications.
2. Trees with broken leaders or no central leader will not be accepted.
3. General Contractor to supply and place at a depth of 4", all topsoil on site within the Limits of Construction.
4. Topsoil hauled onto site shall be fertile, friable, natural loam topsoil, of uniform quality characteristic of representative local soils which produce heavy growth of crops, grass, or other vegetation. It shall be free of trash, or other matter toxic to plant growth.
5. Topsoil shall be delivered in an unfrozen and non-muddy condition and shall be subject to approval by the Landscape Architect.
6. Prior to any excavation for landscaping purposes, the location of underground utilities shall be subject to the Landscape Architect.
7. Report any discrepancies in the planting plan to the Landscape Architect, prior to starting construction.
8. The Landscape Contractor shall coordinate with the G.C. to gain site access to install the plants and maintain grounds, until final acceptance from owner. Upon final acceptance, the one (1) year guarantee period will begin.
9. The Landscape Contractor is responsible for any damage done to the exterior of the building or any part of the parking lot when installing or maintaining the plantings before final acceptance.
10. Fall planting season shall be September 1 thru October 31. Spring planting season shall be April 1 thru June 30. For grass seeding, fall season shall be September 1 thru mid October. Spring season for seeding shall be March 15 thru mid May.
11. Landscape to be watered manually until established.
12. Buffalo Sod:
    All areas disturbed by construction shall be sodded with buffalo sod. Submit selected species for review to Landscape Architect & submit selected species for review & approval by Parks Department.
13. Temporary Seed:
    If areas cannot be sodded due to seasonal planting limitations, all disturbed areas shall be temporarily seeded with Annual Ryegrass at 4 lbs./1000SF.
14. Trees shall be placed at a minimum of 5' away from any pavement per City of Wichita.
15. The unit prices for all plantings shall include installation, mulch, 1 year guarantee, bed preparation, fertilizer, etc.
16. The seeding and sodding quantities are for information only, all cost associated with these activities shall be not be paid directly, but shall be SUBSIDIARY to the Lump Sum Bid Items "Seeding" or "Sodding"
17. The seeding / sodding quantities are for the hatched areas identified in the plan sheets only. All costs associated with any additional area that is disturbed during construction shall be SUBSIDIARY to the Lump Sum Bid Items "Seeding" or "Sodding".



BAUGHMAN COMPANY
315 Ellis St.
Wichita, KS 67211
316-262-7271
BaughmanCo.com

CITY OF WICHITA
17TH STREET

LANDSCAPE PLAN DETAILS

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

DESIGN: BDC DRAWN: TS

DATE: August 5, 2025

SHEET 89 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\LANDSCAPE PLAN.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2024	90	XX

NOTE TO DESIGNER: Designer shall identify any project specific changes to the standard sheets or specifications. All changes shall be approved by City of Wichita and identified on "MODIFICATIONS TO SIGNAL STANDARDS OR SPECS". Design shall update peak hour volumes for the design intersection(s).

GENERAL NOTES

1. TRAFFIC SIGNAL SPECIFICATIONS (PART 700), STANDARD DRAWINGS, CHECKLISTS, AND OTHER INFORMATION MAY BE FOUND ONLINE AT: HTTPS://WICHITA.GOV/PWU/PAGES/REGULATIONS.ASPX
   IF THERE IS A DISCREPANCY BETWEEN OR AMONG THE FOLLOWING CONTRACT DOCUMENTS, THE GOVERNING RANKING OR ORDER OF PRECEDENCE IS:
   A. INFORMATION RECEIVED AT PREBID / ADDENDUM(S)
   B. PLANS
   C. PROJECT SPECIAL PROVISIONS
   D. SPECIAL PROVISIONS
   E. STANDARD SPECIFICATIONS

   THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCY RELATED TO THE WORK BEING PERFORMED.

2. ALL WORK WILL BE CONFINED WITHIN THE EXISTING ROADWAY RIGHT-OF-WAY OR RIGHT-OF-WAY SHOWN PER PLAN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY AND KEEP INSTALLATION OF ALL EQUIPMENT AND DEVICES WITHIN THE APPROVED RIGHT-OF-WAY.

3. CONTRACTOR SHALL MAINTAIN 2 FT CONDUIT CLEARANCE FROM ALL LANDSCAPED FEATURES AND IRRIGATION SYSTEMS EXISTING WITHIN THE RIGHT-OF-WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE INCURRED TO ANY EXISTING UNDERGROUND SPRINKLER SYSTEM DURING CONSTRUCTION. ANY LANDSCAPING OR IRRIGATION SYSTEMS DISTURBED DURING CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO ORIGINAL CONDITION OR AS ACCEPTABLE BY THE ENGINEER AND OWNER THEREOF. NO ADDITIONAL PAYMENT WILL BE MADE.

4. CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ALL DISTURBED WORK AREAS. RESTORATION INCLUDES SEEDING, FERTILIZING, MULCHING, AND THE REMOVAL OF ALL UNUSED MATERIAL AND DEBRIS FROM THE WORK AREA ACCORDING TO THE STANDARD SPECIFICATIONS AND AS REQUIRED BY THE ENGINEER. ALL GRADING WORK SHALL SLOPE AWAY FROM FOUNDATIONS TO PREVENT PONDING. ADEQUATE TEMPORARY PROTECTION AGAINST EROSION SHALL BE PROVIDED ACCORDING TO CITY OF WICHITA SPECIFICATIONS.

5. THE CONTRACTOR SHALL DETERMINE ANY CONFLICTS WITH EXISTING UTILITIES PRIOR TO INITIATION OF CONSTRUCTION. THE CONTRACTOR SHALL CONTACT THE ENGINEER UPON DETERMINATION OF ANY UTILITY CONFLICTS.

6. LOCATING, TRACING, AND POTHOLING FOR EXISTING UTILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR. DISTURBED AREAS SHALL BE RESTORED WITH SIMILAR MATERIAL AND CONSTRUCTION METHODS. NO ADDITIONAL PAYMENT WILL BE MADE FOR LOCATING OR POTHOLING EXISTING UTILITIES, INCLUDING PAVEMENT RESTORATION. ALL LABOR, MATERIAL AND EQUIPMENT NECESSARY FOR LOCATING EXISTING UTILITIES SHALL NOT BE PAID FOR DIRECTLY BUT IS SUBSIDIARY TO OTHER ITEMS OF THE CONTRACT.

7. PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL CALL DIG SAFE AT 811 OR 1-800-344-7233 (1-800-DIG SAFE) TO REQUEST THE UTILITIES BE MARKED IN THAT AREA. THE CONTRACTOR SHALL ALSO CONTACT ANY AND ALL UTILITIES AND LOCAL GOVERNMENT AGENCIES NOT PARTICIPATING IN LOCATION SERVICES.

8. THE CITY WILL SURVEY AND STAKE LOCATIONS WHERE POLES, FOUNDATIONS, CABINETS, POWER SERVICES, AND SERVICE BOXES ARE TO BE INSTALLED. THE CONTRACTOR SHALL COORDINATE AND SCHEDULE STAKING WITH THE CITY WITH ADVANCED NOTICE. STAKED LOCATIONS SHALL BE REVIEWED AND APPROVED BY THE ENGINEER PRIOR TO ANY EXCAVATION.

9. ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION. ALL TRAFFIC CONTROL PLANS AND LANE CLOSURES SHALL BE PRE-APPROVED BY THE ENGINEER IF NOT SPECIFICALLY PROVIDED IN THE CONTRACT DOCUMENTS.

10. THE PUBLIC PASSAGE ON THE EXISTING SIDEWALK OR PEDESTRIAN PATHWAY SHOULD BE SAFE, PROTECTED, AND ADA ACCESSIBLE. IF PUBLIC PASSAGE IS NOT POSSIBLE, A REROUTE AROUND THE WORK AREA IS REQUIRED. REROUTE MUST BE CLEARLY IDENTIFIED, ADA ACCESSIBLE, AND MEET ALL APPLICABLE REGULATIONS.

11. POWER COMPANY SHALL BE NOTIFIED AT LEAST TWO (2) WEEKS AND AGAIN AT 72 HOURS PRIOR TO THE ANTICIPATED SIGNAL TURN ON. THE CONTRACTOR SHALL NOTIFY THEM TO COORDINATE POWER HOOK-UP, INSTALLATION OF LUMINAIRES (IF APPLICABLE), AND ANY OTHER ITEMS REQUIRED FOR COMPLETION OF THE TRAFFIC SIGNAL. IF AVAILABLE, PROVIDE ENGINEER WITH ANY WORK ORDER/CASE NUMBERS.

12. HIGH VOLTAGE POWER LINES MAY BE WITHIN THE PROJECT LIMITS. ALL WORK IS TO BE PERFORMED IN CONFORMANCE WITH ALL STATE, LOCAL, FEDERAL, UTILITY, AND CONTRACT REQUIREMENTS. THE CITY HAS NO CONTROL OVER THE MEANS, METHODS, CHOICE OF EQUIPMENT, SEQUENCING OF WORK, AND SAFETY PRACTICES USED WHEN WORKING IN, ON, OR AROUND HIGH VOLTAGE LINES OR OTHER UTILITY STRUCTURES AS THESE ITEMS ARE THE RESPONSIBILITY OF THE PARTIES CONTROLLING THE PHYSICAL PERFORMANCE OF THE WORK.

13. ALL GROUNDING SYSTEMS SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND MANUFACTURER SPECIFICATIONS. FOLLOW APPLICABLE NEC REQUIREMENTS FOR INSTALLATION OF ALL PROJECT MATERIALS. THE CONTRACTOR SHALL PROPERLY GROUND ALL EQUIPMENT, CABINET, AND GROUND RODS PER APPLICABLE STANDARDS OR AS DIRECTED BY ENGINEER.

14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE ELECTRICAL SERVICE CONNECTION IN THE CITY'S NAME AT THE LOCATIONS SHOWN ON THE PLANS. DIRECT COSTS FOR PERMANENT ELECTRICAL SERVICES TO BE PAID BY CITY. THE CONTRACTOR IS RESPONSIBLE FOR TEMPORARY SERVICE (IF REQUIRED).

15. THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT CATALOG CUTS OR SHOP DRAWINGS FOR ALL EQUIPMENT TO BE INSTALLED. IT IS THE PRIME CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL SHOP DRAWINGS, TESTING RESULTS, AND ALL OTHER REQUIRED SUBMITTALS PRIOR TO SUBMITTING FOR ENGINEER'S APPROVAL. THE ENGINEER WILL NOT REVIEW ANY SUBMITTED DOCUMENTATION OR BEGIN ANY TESTING PERIODS UNTIL THIS WORK IS COMPLETE.

16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND SALVAGING EXISTING EQUIPMENT AS NOTED. DAMAGE TO ANY EXISTING TRAFFIC SIGNAL EQUIPMENT DUE TO THE CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AND THE CONTRACTOR SHALL REPORT ANY OPERATIONAL PROBLEMS TO THE TRAFFIC MAINTENANCE DEPARTMENT (316) 268-4013. THE EQUIPMENT SHALL BE REPLACED OR REPAIRED (AS DIRECTED BY THE CITY) WITH APPROVED MATERIALS IN CONFORMANCE WITH THE CURRENT STANDARD DETAILS, SPECIFICATIONS, PRACTICES AND POLICIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY STORED EXISTING MATERIALS (REMOVED FOR CONSTRUCTION) TO BE RE-INSTALLED.

17. WHEN SALVAGED EQUIPMENT IS NOT TO BE REINSTALLED, IT SHALL BE DELIVERED UNDAMAGED TO THE CITY OF WICHITA OR RESPECTIVE OWNER. IF NOT OTHERWISE IDENTIFIED ON THE PLANS, EQUIPMENT SHOULD BE DELIVERED TO CENTRAL MAINTENANCE FACILITY (CMF) AT 1801 S MCLEAN BLVD, WICHITA, KS 67213. THE CONTRACTOR SHALL SCHEDULE THE DELIVERY WITH TRAFFIC SIGNAL MAINTENANCE A MINIMUM OF 24 HOURS IN ADVANCE. THE STORED EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR UNTIL REMOVED BY OWNER FROM THE WORK SITE OR DELIVERED TO THE OWNER.

18. THE TRAFFIC SIGNAL CONTRACTOR SHALL NOTIFY THE ENGINEER OF THE EXACT CONSTRUCTION SCHEDULE SO THAT INSPECTION OF THE TRAFFIC SIGNAL INSTALLATION CAN BE MADE OF ALL PHASES, INCLUDING CONDUIT INSTALLATIONS.

19. THE CONTRACTOR SHALL PROVIDE THE CITY AN ELECTRONIC LIST OF GPS READINGS (EXCEL FORMAT) FOR ALL INSTALLED DEVICES, PULL BOXES, SERVICE BOXES, CABINETS, POWER METERS, AND TRANSFORMERS. THE GPS READINGS SHALL MATCH THE CITY OF WICHITA'S CURRENT GEOGRAPHIC INFORMATION SYSTEM (GIS) WITH 'SUB-METER' ACCURACY. THE PROJECT SURVEY SHALL BE BASED ON NAD83, KANSAS STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, U.S. SURVEY FEET DEFINITION. THE VERTICAL DATUM SHALL BE NAVD88. GPS AND THREE TIE-POINT MEASUREMENTS SHALL BE OBTAINED FOR EACH BURIED ELECTRICAL PULL BOX PRIOR TO PLACING BACKFILL MATERIAL. CONDUITS WHICH ARE NOT PLACED IN A STRAIGHT LINE, SHALL BE LOCATED AS NEEDED IN ORDER TO ESTABLISH ITS EXACT LOCATION AND DEPTH.

TRAFFIC SIGNAL TURN-ON AND ACCEPTANCE PROCEDURE

1. AT LEAST TWO (2) WORKING DAYS PRIOR TO SCHEDULED SIGNAL ACTIVATION, ALL TESTING SHOULD BE COMPLETED AND SUCCESSFUL, ALL DEFECTS AND DEFICIENCIES CORRECTED, ALL INDICATIONS OPERATIONAL AND PROPERLY AIMED, CABLES TAGGED, CABINETS AND SURROUNDING AREAS CLEANED OF DEBRIS, CONTROLLER FULLY OPERATIONAL PERFORMING ALL TIMING FUNCTIONS REQUIRED, ALL OTHER ITEMS OF WORK ASSOCIATED WITH THE SIGNAL COMPLETED, AND ALL SIGNS AND PAVEMENT MARKINGS PROPERLY INSTALLED UNLESS OTHERWISE APPROVED BY THE ENGINEER.

2. THE CONTRACTOR SHALL REVIEW AND SUBMIT TO THE ENGINEER A COMPLETED "CITY OF WICHITA TRAFFIC SIGNAL INSPECTION CHECKLIST" AVAILABLE ONLINE AT WWW.WICHITA.GOV. THE CHECKLIST MUST BE COMPLETED PRIOR TO CITY, TRAFFIC SIGNAL MAINTENANCE, OR ENGINEERING FULL INSPECTION.

3. THE ENGINEER AND CITY WILL CONDUCT A FULL INSPECTION OF THE SIGNAL SYSTEM. UPON SATISFACTORY CONDITIONS OF THE SIGNAL SYSTEM, THE TURN-ON SCHEDULE WILL BE CONFIRMED. THE CITY SHALL BE NOTIFIED AT LEAST ONE (1) WEEK IN ADVANCE OF THE ANTICIPATED SIGNAL TURN-ON DATE. ANY DEFICIENCIES FOUND DURING THE FINAL INSPECTION SHALL RESULT IN THE RESCHEDULING OF THE ACTIVATION.

4. ACTUAL ACTIVATION SHALL CONSIST OF THE FOLLOWING STEPS:
   A. INSTALLATION OF ALL REQUIRED EQUIPMENT IN THE CONTROLLER CABINET
   B. TESTING OF INSTALLED EQUIPMENT
   C. UNBAGGING OF ALL SIGNAL HEADS AND SIGNS (IF APPLICABLE)
   D. ACTIVATION OF THE SIGNAL WITH THE CONTRACTOR'S FLAGGER STOPPING ALL TRAFFIC MOMENTARILY AS THE SIGNAL IS TURNED ON.
   E. MINOR RE-AIMING OF SIGNAL HEADS, IF NECESSARY

5. ACTIVATION OF THE TRAFFIC SIGNAL SHALL NOT BE SCHEDULED FOR WEEKENDS, FRIDAYS OR DAYS RIGHT BEFORE PUBLIC HOLIDAYS. ENERGIZING OF SIGNAL (TURN-ON) TO OCCUR MONDAY - THURSDAY, 9:00 AM - 3:00 PM UNLESS SPECIFICALLY APPROVED OTHERWISE BY THE ENGINEER.

6. TEST PERIOD - FOLLOWING COMPLETION OF ALL ELECTRICAL APPARATUS HOOKUPS AND THE SYSTEM TURN-ON, THE SIGNALS SHALL OPERATE SATISFACTORILY FOR 30 DAYS UNDER NORMAL OPERATION PRIOR TO ACCEPTANCE BY THE CITY. DURING THE TEST PERIOD, THE SIGNALS SHALL OPERATE TROUBLE-FREE WITH NO MAJOR OR MINOR FAILURES OF THE CONTROLLER OR ITS COMPONENTS AS DETERMINED BY THE TRAFFIC ENGINEER. SHOULD ANY DEFECT DEVELOP UNDER NORMAL AND PROPER OPERATING CONDITIONS DURING THE TESTING PERIOD AND PRIOR TO ACCEPTANCE BY THE CITY, THIS MALFUNCTION SHALL BE CORRECTED BY AND AT THE EXPENSE OF THE CONTRACTOR, INCLUDING ALL LABOR, MATERIALS AND ASSOCIATED COSTS. MINOR FAILURES SUCH AS LAMP FAILURES OR LOOP DETECTOR RE-TUNING WILL NOT BE THE BASIS FOR STARTING A NEW TEST PERIOD, PROVIDED THE FAILURES ARE REPAIRED IMMEDIATELY AND THE SAME FAILURES DO NOT RECUR DURING THE REMAINDER OF THE TEST PERIOD. A MAJOR MALFUNCTION OR FAILURE OF THE CONTROLLER AND ITS COMPONENTS WILL RESULT IN A NEW 30 DAY TEST PERIOD BEING IMPLEMENTED AFTER THE REPAIRS HAVE BEEN MADE. COMPLETION OF THE TEST PERIOD DOES NOT ABSOLVE THE CONTRACTOR OF ANY WARRANTY.

7. IF A TRAFFIC SIGNAL MALFUNCTION OCCURS BETWEEN SUCCESSFUL TURN-ON AND FINAL ACCEPTANCE AND THE SIGNAL MALFUNCTION IS DUE TO FAULTY WORK BY THE CONTRACTOR, THE CITY MAINTENANCE DIVISION MAY TAKE CORRECTIVE ACTION AND HAS THE DISCRETION TO BILL THE CONTRACTOR FOR ALL RELATED EXPENSE, INCLUDING OVERHEAD.

8. FINAL ACCEPTANCE BY THE CITY IS CONDITIONAL UNTIL THE CONTRACTOR HAS CORRECTED ALL DEFECTS AND PUNCH LIST ITEMS. FINAL ACCEPTANCE WILL BE BY WRITTEN NOTICE OF ENGINEER.

9. WARRANTY - THE WARRANTY PERIOD BEGINS ONCE THE FINAL ACCEPTANCE BY THE CITY HAS OCCURRED. CONFIRMATION OF THE ACCEPTANCE SHOULD BE PROVIDED IN WRITTEN DOCUMENTATION.

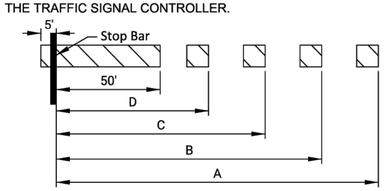
MODIFICATIONS TO SIGNAL STANDARDS OR SPECS

NO.	DESCRIPTION OF ITEM	SPEC. NO.	SHEET NO.
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			

ADVANCE DETECTION DISTANCE & TIMING CALCULATION

SPEED (MPH)	MIN. ADVANCE DETECTION ZONE DISTANCES (FEET) A	B	C	D	*TOTAL EXT. (SEC.)
60	610	420	260	92	2.0
55	490	320	210	92	2.0
50	420	260	92	-	2.0
45	320	210	92	-	2.0
40	260	92	-	-	2.0
35	210	92	-	-	2.0
<35 MPH NO ADVANCE DETECTION. STOP BAR ZONE ONLY (55' TYP.)					

* DETECTOR EXTENSION TIMINGS SHALL BE PROGRAMMED INTO THE TRAFFIC SIGNAL CONTROLLER.



NO.	DESCRIPTION	DATE	REVISIONS	BY	APP'D
3					
2					
1					

CITY OF WICHITA
PUBLIC WORKS & UTILITIES ENGINEERING DIVISION

TRAFFIC SIGNAL GENERAL NOTES

TRAFFIC ENGINEER APP'D 01/27/22
MIKE ARMOUR, P.E.

PROJECT NUMBER	ORG NUMBER	DATE
472-2023-085860 23-04-E484	40107823	8/5/25

CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

SHEET 90

TR-101

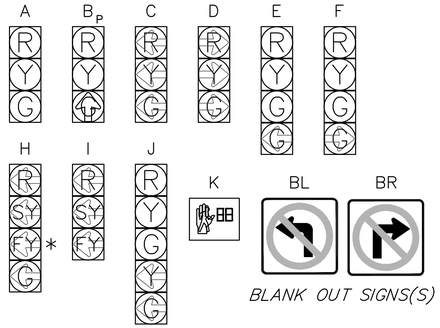
E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\SIGNALIZATION.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	91	148

CHART A SIGNAL SUMMARY

Signal Face Arrangement	No. Sections (Per Face)	Signal Mounting Type	Quantity
J	4	Mast Arm w/Backplate	4
A	4	Mast Arm w/Backplate	4
A	4	Side-of-Pole	4
K	1	Side-of-Pole	8

SIGNAL FACE ARRANGEMENT



BLANK OUT SIGNS(S)

NOTES:
1. *Shall not be displayed when operating in the protected only mode.
2. All lenses are L.E.D. unless otherwise noted.
3. Subscript "P" indicated programmed signals.
4. All lenses shall be 12" dia. unless otherwise noted. Pedestrian Display (K) shall be rectangular with a width of 18" and height of 16".
5. Blank out sign size shall meet MUTCD requirements for applicable static version of the sign.

CHART B TRAFFIC SIGNAL POLES

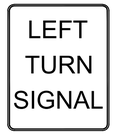
Pole No.	Pole Height	Signal Arm Length	Signal Arm Mounting Height	No. of Signals on Arm	Signal Spacing	Luminaire Arm Length	Luminaire Mounting Height	Quantity

CHART C OVERHEAD STREET NAME SIGNS

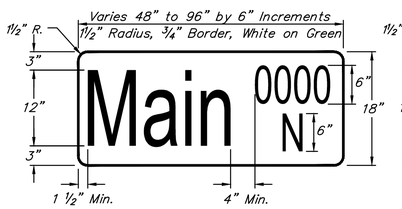
Sign	Legend	Length	Quantity
1	17th St	72"	2
2	Grove	54"	2

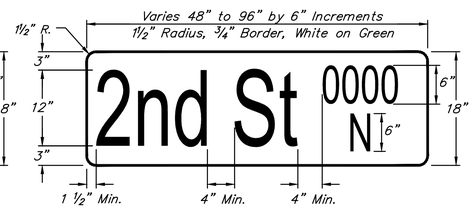
R10-3E

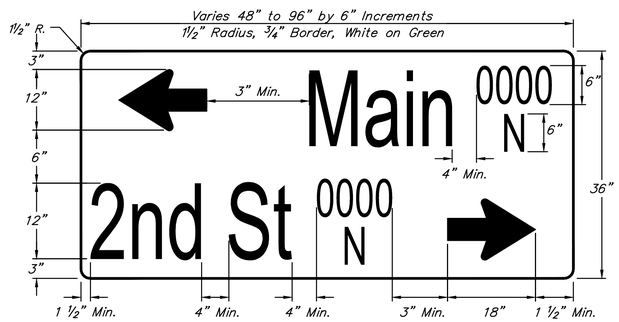
R10-FYA



R10-10







Use FHWA Font Series D. Sheeting Shall be ASTM Type XI Sheeting. See Specifications 703.8

BILL OF MATERIALS

(Quantities for Information Only)

Item	Quantity	Unit	Spec. No.	Note
Controller Unit	1	Each	703.2.1	Trafficware 2070 Model
Conflict Monitor		Each	703.2.2	
Load Switch		Each	703.2.3	
Flasher		Each	703.2.4	
Flash Transfer Relay		Each	703.2.5	
Surge Protector		Each	703.2.6	
DC Isolator		Each	703.2.7	
AC Isolator		Each	703.2.8	
GPS Clock		Each	703.2.9	
Power Strip		Each	703.2.11	
Loop Detector (2 ir 4 Channel)		Each	703.2.10	
Pole Mounted Cabinet (336L)		Each	703.2.11	
PAD Mounted Cabinet (332L)		Each	703.2.11	
PAD Mounted Cabinet (342)(Double)		Each	703.2.11	
Battery Backup (BBS/UPS)		Each	703.2.14	
Video Detection Device & Hardware		Each	703.3.1	
Radar Detection Device & Hardware	4	Each	703.3.2	
Traffic Signal Head	12	Each	703.4.1	
Signal Head Mounting Bracket	12	Each	703.4.2	
Retroreflective Backplate	8	Each	703.4.3	
Vehicle Traffic Signal LED Modules	44	Each	703.4.4	
Pedestrian Traffic Signal LED Modules	8	Each	703.4.5	
APS Pushbutton System & Sign (R10-3E, 9"x15")	8	Each	703.4.6	
Traffic Signal Pole		Each	703.5.1	
Traffic Signal Pedestal (Aluminum)		Each	703.5.2	
APS Pushbutton Station (Aluminum)		Each	703.5.3	
Service Box		Each	703.6	
Luminaire Arm		Each	703.7.1	Power Company Provided & Installed
LED Luminaire		Each	703.7.2	Power Company Provided & Installed
Photo Cell		Each	703.7.3	Power Company Provided & Installed
Unfused Street Light Connector Kit		Each	703.7.4	
Fused Street Light Connector Kit		Each	703.7.5	
Overhead Street Name Sign	4	Each	703.8.1	
R10-12 Sign (30"x36")	4	Each	703.8.2	
R10-FYA Sign (30"x36")		Each	703.8.2	
Blank Out Sign (36"x36")		Each	703.8.3	
Entrance Head		Each	703.9.2	
Service Enclosure, XXX AMP		Each	703.9.3	
Circuit Breaker, Traffic Signal, XXX Amp		Each	703.9.4	
Circuit Breaker, Luminaire, XXX Amp		Each	703.9.4	
Surge Arrester CA 302R		Each	703.9.5	
Power Service Controller Cabinet		Each	703.9.6	
Ground Rod & Clamp (12')		Each	703.10	
Service Wire No. 6 AWG 1/C		Lin Ft	703.11.1	
Lightining Distribution Wire No. 8 AWG 1/C		Lin Ft	703.11.2	
Pole & Bracket Wire No. 10 AWG 1/C		Lin Ft	703.11.3	
Ground Wire No. 6 AWG 1/C Bare Solid		Lin Ft	703.11.4	
Tracer Wire No. 12 AWG (Blue)		Lin Ft	703.11.5	
Tracer Wire Connector		Each	703.11.6	
Multi-Conductor Cable No. 14 AWG 7/C	1,306	Lin Ft	703.11.7	
Detection Cable	436	Lin Ft	703.11.9	
Pre-formed Loop		Each	703.11.10	
Ethernet Cable (CAT6)		Lin Ft	703.11.11	
Conduit, 2" & Fittings		Lin Ft	703.12	
Conduit, 3" & Fittings		Lin Ft	703.12	
Conduit, 1.5" & Fittings		Lin Ft	703.12	

NOTES:
1. Quantities shown are for 17th Street and N Grove Street Signal.
2. Refer to City of Wichita Part 700 Traffic Signalization Specifications.
3. All traffic signal poles shall be painted black per latest edition of Part 700 Specifications. Signal Cabinet shall be natural aluminum.
4. Conflict Monitor shall be a 2010 ECL-IP Unit with Ethernet Port.
5. A separate detection card shall be used for each intersection leg. The detection system includes detector unit, processor, card, and incidental items necessary for the successful operation of the detection system.

R10-12

BID ITEM

Item	Quantity	Unit
Traffic Signalization	LSUM	LSUM
Traffic Signalization, Temporary	LSUM	LSUM
Traffic Signal Controller	1	EACH
Detection System	LSUM	LSUM

1. Traffic Signal Controller items includes the unit cost for permanent controller only. Cost for installation, programming, etc. shall be included in the "Traffic Signalization" quantity.
2. Controllers for temporary signal(s) is subsidiary to the bid item "Traffic Signalization, Temporary".
3. For multiple project intersections, quantities should be bid separate for each signalized intersection (excluding controllers).
4. The traffic signal system shall be complete, and the contractor shall furnish and install all equipment and materials necessary for the satisfactory operation of electrical apparatus and for complete operation of the traffic signal system, whether specifically mentioned or not.

BAUGHMAN COMPANY
315 Ellis St.
Wichita, KS 67211
316-262-7271
BaughmanCo.com

CITY OF WICHITA
17TH STREET

SIGNAL QNTY - N GROVE ST

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

DESIGN: BDC DRAWN: BDC

DATE: August 5, 2025

SHEET 91 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\SIGNALIZATION.dwg

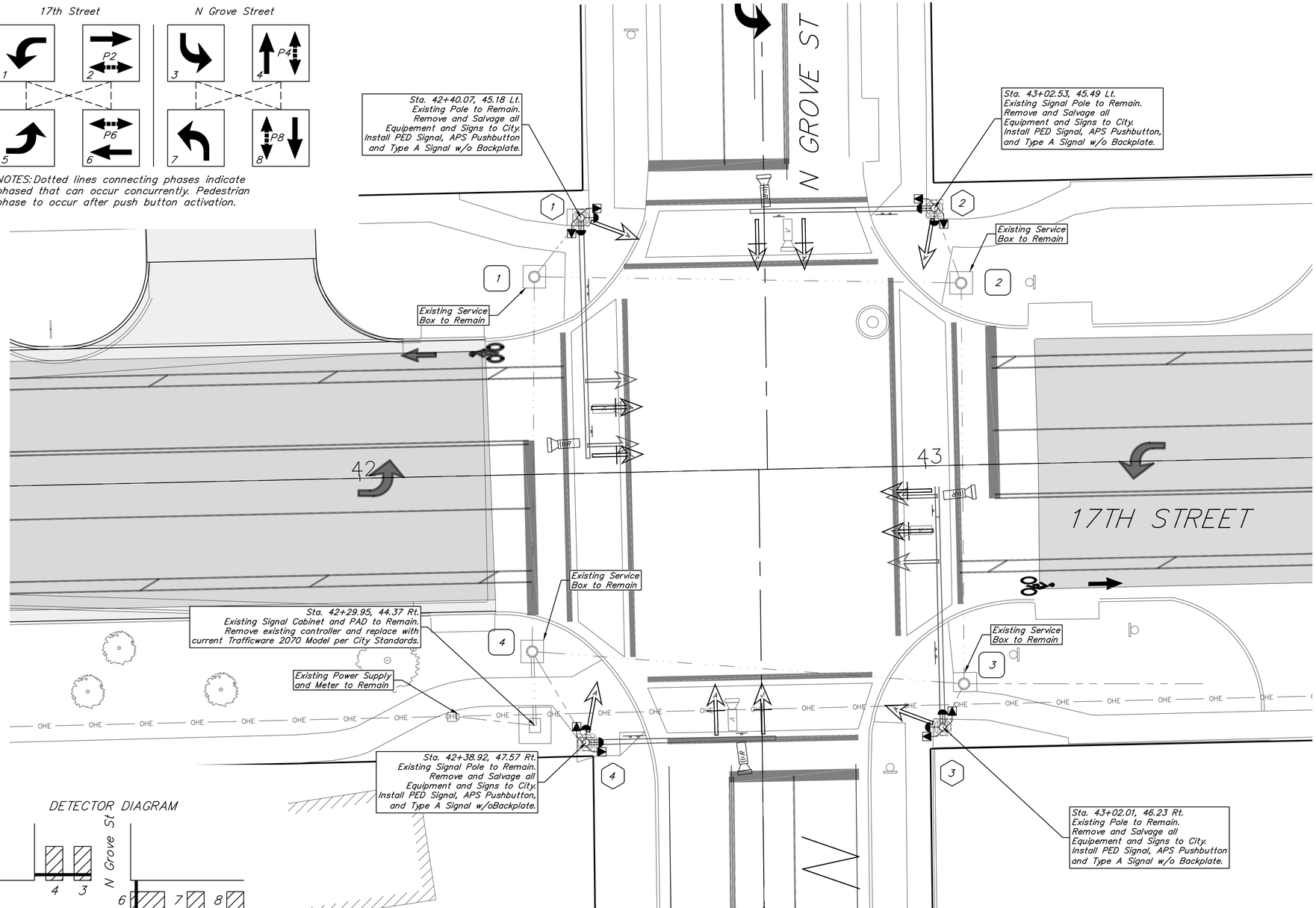
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	92	148

PHASING DIAGRAM

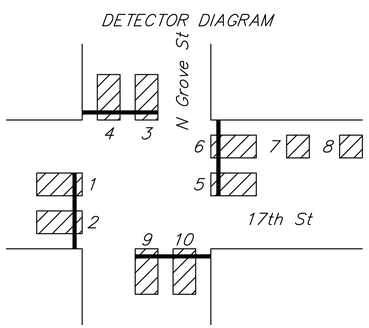
NOTES: Dotted lines connecting phases indicate phased that can occur concurrently. Pedestrian phase to occur after push button activation.

GENERAL NOTES:

1. Conduit runs are approximate and may be field adjusted to clear obstructions and facilitate wiring, as approved by the Engineer, and all conduit runs shall be straight between boxes and/or foundations.
2. Existing features and utilities are shown from available information and should be considered approximate only, it is the responsibility of the contractor to verify the utilities and their exact location prior to construction.
3. See Traffic Signal Pedestal Installation Detail Sheet 97 for additional details.
4. See Sheet 102 for Pavement Marking Plan and Layout.



DETECTOR DIAGRAM



SIGNAL PLAN
17TH ST & N GROVE ST

EXISTING EQUIPMENT REMOVAL SUMMARY

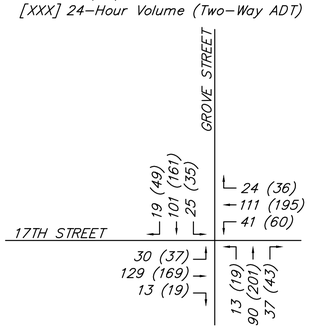
Location	Description of Item	Quantity
42+40.07, 45.18 Lt.	Pole 1: Signal Heads, Equipment, and Signs	1
43+02.53, 45.49 Lt.	Pole 2: Signal Heads, Equipment, and Signs	1
43+02.01, 46.23 Rt.	Pole 3: Signal Heads, Equipment, and Signs	1
42+38.92, 47.57 Rt.	Pole 4: Signal Heads, Equipment, and Signs	1

LEGEND:

- Existing Signal Head
- Existing Pedestrian Pole
- Existing Push Button
- Existing Signal
- Existing 3" Conduit
- Existing 2" Conduit
- Existing Sign
- Existing Service Box
- Traffic Signal Pole
- Traffic Signal Head
- Traffic Signal Head W/Backplate
- Radar Detection
- Video Detector
- Traffic Pedestrian Pole
- Pedestrian Push Button
- Pedestrian Signal
- 3" Conduit
- 2" Conduit
- 1 ½" Conduit
- Sign on 1 Bracket
- Sign on 2 Brackets
- Blank Out Sign
- Pole/PED Number
- Signal Number
- Phase Number
- Detector Number
- Service Box
- Power Meter Cabinet
- Traffic Signal Cabinet
- Service Box Number

PEAK HOUR VOLUMES

AM (PM) Peak Hour Volume
[XXX] 24–Hour Volume (Two–Way ADT)



AM Peak Hour = 8:15 – 9:15
PM Peak Hour = 3:45 – 4:45
Counts Conducted 05/18/2023

10 0 10
Scale: 1" = 10'

BAUGHMAN COMPANY
315 Ellis St.
Wichita, KS 67211
316-262-7271
BaughmanCo.com

CITY OF WICHITA
17TH STREET

SIGNAL PLAN - N GROVE ST

STREET IMPROVEMENTS

PROJECT NUMBER: 472-2023-085860 23-04-E484

DESIGN: BDC DRAWN: BDC

DATE: August 5, 2025

SHEET 92 OF 148

File: E:\Projects\Wichita 17th St. I-135 to Hillside (23-04-E484)\Engineering\DWG\SIGNALIZATION.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	93	148

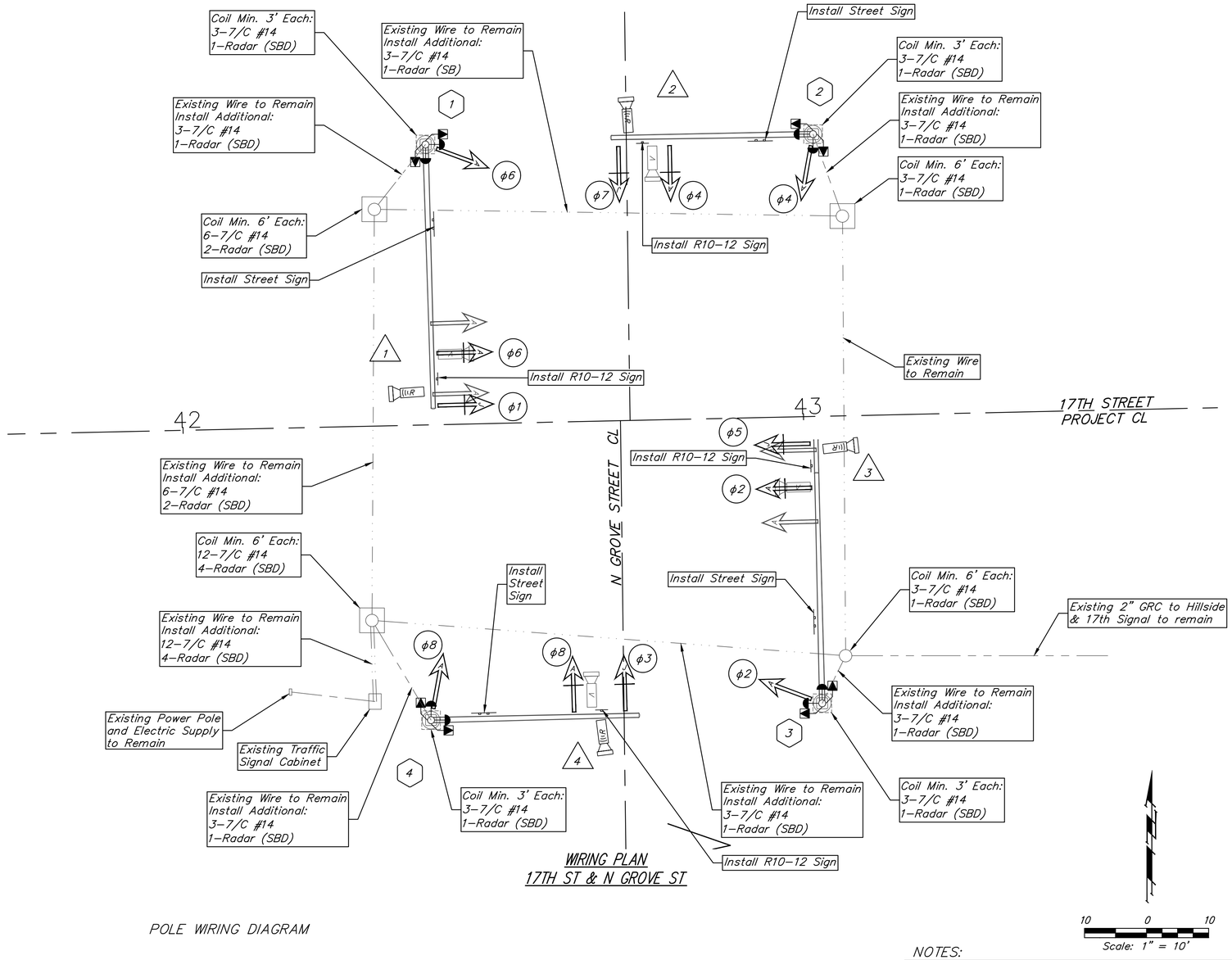
LEGEND:

- Traffic Signal Pole
- Traffic Signal Head
- Traffic Signal Head W/Backplate
- Radar Detection
- Video Detector
- Traffic Pedestrian Pole
- Pedestrian Push Button
- Pedestrian Signal
- 3" Conduit
- 2" Conduit
- 1 ½" Conduit
- Sign on 1 Bracket
- Sign on 2 Brackets
- Blank Out Sign
- Pole/PED Number
- Signal Number
- Phase Number
- Detector Number
- Service Box Number
- Service Box
- Traffic Signal Cabinet
- Power Meter Cabinet

ABBREVIATIONS

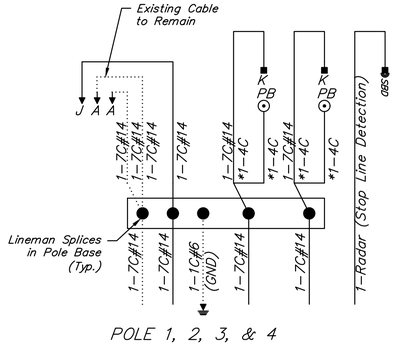
ADV	Advanced
BO	Blank Out Sign Cable
C	Conduit
COAX	Coaxial Cable
DET	Detector Lead-In Cable
FUT	Future Cable
GRC	Galvanized Rigid Conduit
GRND	Wire for Pole Ground
PB	Pushbutton
PED	Pedestrian Signal Cable
PMPT	Preemption Cable
MZD	Multi-Zone Detection
RADAR	Radar Detector Cable
SBD	Stop Bar Detection
SIG	Signal Cable
ST. LT.	Street Lighting Cable
.....	Existing Cable to Remain

*1-4C From Pedestrian Signal Head (K) to ADA Pushbutton Provided by Supplier



WIRING PLAN
17TH ST & N GROVE ST

POLE WIRING DIAGRAM



POLE 1, 2, 3, & 4

DETECTOR SUMMARY

Detector Number	Detection Zone Size	Stop Bar Detection	Advanced Detection	≠ Timings (sec) Total Stretch +Extension	≠ Timings (sec) Delay	Mode Presence	Mode Pulse	Phase Called	Distance from Stop Bar
1	6'x55'	X		2.5	0	X		5	5'
2	6'x55'	X		3	0	X		2	5'
3	6'x55'	X		2.5	0	X		3	5'
4	6'x55'	X		3	0	X		8	5'
5	6'x50'	X		2.5	0	X		1	5'
6	6'x50'	X		3	0	X		6	5'
7	6'x6'		X	3	0		X	6	92'
8	6'x6'		X	3	0		X	6	210'
9	6'x55'	X		2.5	0	X		7	5'
10	6'x55'	X		3	0	X		4	5'

≠ Timings shown in detector summary chart include that total stretch + extension. Detector timings shall be programmed into the traffic signal controller. See traffic signal general notes for advanced detection distance and timing.

SUGGESTED TIMINGS (SEC.)

Phase	Minimum Initial	*Maximum Green Split	**Pedestrian Walk	**Pedestrian FDW	**Pedestrian SDW	***Clearance Yellow	***Clearance All Red
1	5	15				3.0	1.0
2	8	30	8.0	15		4.0	2.0
3	5	15				3.0	1.0
4	8	30	8.0	18		3.5	2.0
5	5	15				3.0	1.0
6	8	30	8.0	15		4.0	2.0
7	5	15				3.0	1.0
8	8	30	8.0	18		3.5	2.0

Clearance Design Speeds:
17th St EB = 30 MPH
17th St WB = 35 MPH
Grove Street = 30 MPH

*Maximum Green Split is for non-pedestrian calls only. Timing incorporates yellow & all red clearance times.

**Pedestrian Phasing shall extend phase when called if appropriate. Pedestrian clearance times shall follow MUTCD guidelines for phases.

***Signal Clearance Timings are calculated base on recommendations from NCHRP Report 731.

NOTES:

1. All multi-conductor wire shall be AWG #14 solid unless specified otherwise. Label each wire as shown in Part 700 Specifications of the Traffic Signalization Specifications.
2. All ground wire shall be #6 AWG copper wire in accordance with ATM B-3. Solid bare copper wire shall be used for all exterior installations including service and ground rod bonding. Otherwise, green insulated stranded wire type "THHN/THWN" shall be used.
3. Ground wire shall be bonded to each ground road at every pole, pedestal, service box, and controller to form one continuous ground circuit.
4. Detector cables should run continuous. Splices, if required, shall only occur in the pole base and must be approved by the City of Wichita Traffic Engineer.
5. In no case shall more than 60% of any conduit be filled by area.
6. Street lighting cable shall be spliced in service boxes. The splice shall be made waterproof.
7. Splices at pole base shall be lineman splices per section 702.21.11 of the Traffic Signalization Specifications. Terminal blocks will not be used.
8. All conduit shall be hot dipped galvanized rigid steel conduit (GRC) as shown in the Project Specifications.
9. During emergency flash operations, all signal phases shall be red indications. Pedestrian phase shall be dark.

LEGEND: Signal Head | Video Detector | Radar Detector | PTZ CCTV | Luminaire | PED, Head | PB Pushbutton | Ground | ST. LT. Connector Kit | Splice Connection

BRENT A. CHESNUT
LICENSED
23419
08/05/2025
KANSAS
PROFESSIONAL ENGINEER

BAUGHMAN COMPANY
315 Ellis St.
Wichita, KS 67211
316-262-7271
BaughmanCo.com

CITY OF WICHITA
17TH STREET

WIRING PLAN - N GROVE ST

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

DESIGN: BDC DRAWN: BDC

DATE: August 5, 2025

SHEET 93 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\SIGNALIZATION.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	94	148

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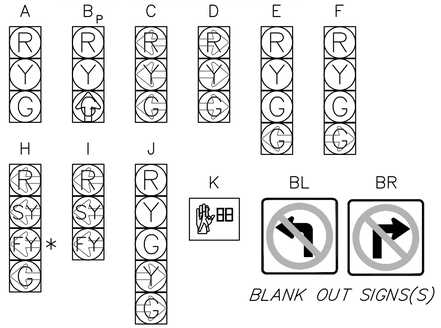
A	3	Side–of–Pole	4

SIGNAL FACE ARRANGEMENT



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3. Subscript "P" indicated programmed signals.
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CHART B TRAFFIC SIGNAL POLES

Pole No.	Pole Height	Signal Arm Length	Signal Arm Mounting Height	No. of Signals on Arm	Signal Spacing	Luminaire Arm Length	Luminaire Mounting Height	Quantity

CHART C OVERHEAD STREET NAME SIGNS

Sign	Legend	Length	Quantity
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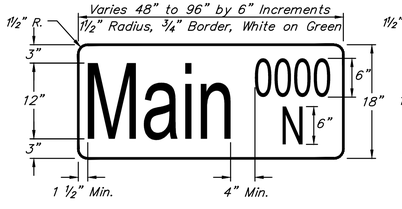
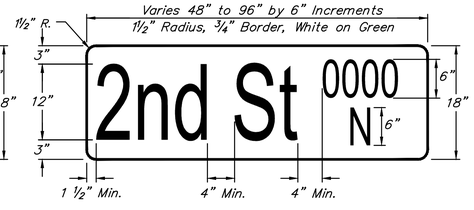
2	Hillside	60"	2

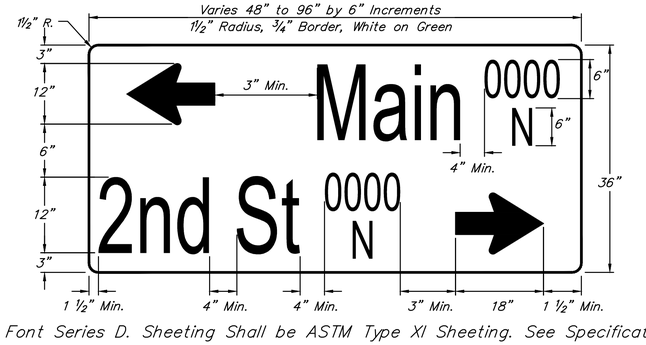
R10–3E

R10–FYA

R10–10







Use FHWA Font Series D. Sheeting Shall be ASTM Type XI Sheeting. See Specifications 703.8

BILL OF MATERIALS

(Quantities for Information Only)

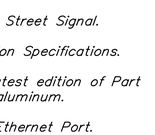
Item	Quantity	Unit	Spec. No.	Note
Controller Unit	1	Each	703.2.1	Trafficware 2070 Model
Conflict Monitor		Each	703.2.2	
Load Switch		Each	703.2.3	
Flasher		Each	703.2.4	
Flash Transfer Relay		Each	703.2.5	
Surge Protector		Each	703.2.6	
DC Isolator		Each	703.2.7	
AC Isolator		Each	703.2.8	
GPS Clock		Each	703.2.9	
Power Strip		Each	703.2.11	
Loop Detector (2 ir 4 Channel)		Each	703.2.10	
Pole Mounted Cabinet (336L)		Each	703.2.11	
PAD Mounted Cabinet (332L)		Each	703.2.11	
PAD Mounted Cabinet (342)(Double)		Each	703.2.11	
Battery Backup (BBS/UPS)		Each	703.2.14	
Video Detection Device & Hardware		Each	703.3.1	
Radar Detection Device & Hardware	4	Each	703.3.2	
Traffic Signal Head	14	Each	703.4.1	
Signal Head Mounting Bracket	14	Each	703.4.2	
Retroreflective Backplate	10	Each	703.4.3	
Vehicle Traffic Signal LED Modules	46	Each	703.4.4	
Pedestrian Traffic Signal LED Modules		Each	703.4.5	
APS Pushbutton System & Sign (R10–3E, 9"x15")		Each	703.4.6	
Traffic Signal Pole		Each	703.5.1	
Traffic Signal Pedestal (Aluminum)		Each	703.5.2	
APS Pushbutton Station (Aluminum)		Each	703.5.3	
Service Box		Each	703.6	
Luminaire Arm		Each	703.7.1	Power Company Provided & Installed
LED Luminaire		Each	703.7.2	Power Company Provided & Installed
Photo Cell		Each	703.7.3	Power Company Provided & Installed
Unfused Street Light Connector Kit		Each	703.7.4	
Fused Street Light Connector Kit		Each	703.7.5	
Overhead Street Name Sign	4	Each	703.8.1	
R10–10 Sign (30"x36")		Each	703.8.2	
R10–FYA Sign (30"x36")	4	Each	703.8.2	
Blank Out Sign (36"x36")		Each	703.8.3	
Entrance Head		Each	703.9.2	
Service Enclosure, XXX AMP		Each	703.9.3	
Circuit Breaker, Traffic Signal, XXX Amp		Each	703.9.4	
Circuit Breaker, Luminaire, XXX Amp		Each	703.9.4	
Surge Arrester CA 302R		Each	703.9.5	
Power Service Controller Cabinet		Each	703.9.6	
Ground Rod & Clamp (12')		Each	703.10	
Service Wire No. 6 AWG 1/C		Lin Ft	703.11.1	
Lightining Distribution Wire No. 8 AWG 1/C		Lin Ft	703.11.2	
Pole & Bracket Wire No. 10 AWG 1/C		Lin Ft	703.11.3	
Ground Wire No. 6 AWG 1/C Bare Solid		Lin Ft	703.11.4	
Tracer Wire No. 12 AWG (Blue)		Lin Ft	703.11.5	
Tracer Wire Connector		Each	703.11.6	
Multi–Conductor Cable No. 14 AWG 7/C	462	Lin Ft	703.11.7	
Detection Cable	462	Lin Ft	703.11.9	
Pre–formed Loop		Each	703.11.10	
Ethernet Cable (CAT6)		Lin Ft	703.11.11	
Conduit, 2" & Fittings		Lin Ft	703.12	
Conduit, 3" & Fittings		Lin Ft	703.12	
Conduit, 1.5" & Fittings		Lin Ft	703.12	

NOTES:
1. Quantities shown are for 17th Street and N Hillside Street Signal.
2. Refer to City of Wichita Part 700 Traffic Signalization Specifications.
3. All traffic signal poles shall be painted black per latest edition of Part 700 Specifications. Signal Cabinet shall be natural aluminum.
4. Conflict Monitor shall be a 2010 ECL–IP Unit with Ethernet Port.
5. A separate detection card shall be used for each intersection leg. The detection system includes detector unit, processor, card, and incidental items necessary for the successful operation of the detection system.

BID ITEM

Item	Quantity	Unit
Traffic Signalization	LSUM	LSUM
Traffic Signalization, Temporary	LSUM	LSUM
Traffic Signal Controller	1	EACH
Detection System	LSUM	LSUM

1. Traffic Signal Controller items includes the unit cost for permanent controller only. Cost for installation, programming, etc. shall be included in the "Traffic Signalization" quantity.
2. Controllers for temporary signal(s) is subsidiary to the bid item "Traffic Signalization, Temporary".
3. For multiple project intersections, quantities should be bid separate for each signalized intersection (excluding controllers).
4. The traffic signal system shall be complete, and the contractor shall furnish and install all equipment and materials necessary for the satisfactory operation of electrical apparatus and for complete operation of the traffic signal system, whether specifically mentioned or not.



BAUGHMAN COMPANY
315 Ellis St.
Wichita, KS 67211
316-262-7271
BaughmanCo.com

CITY OF WICHITA
17TH STREET

SINGAL QNTY - HILLSIDE

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

DESIGN: BDC DRAWN: BDC

DATE: August 5, 2025

SHEET 94 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\SIGNALIZATION.dwg

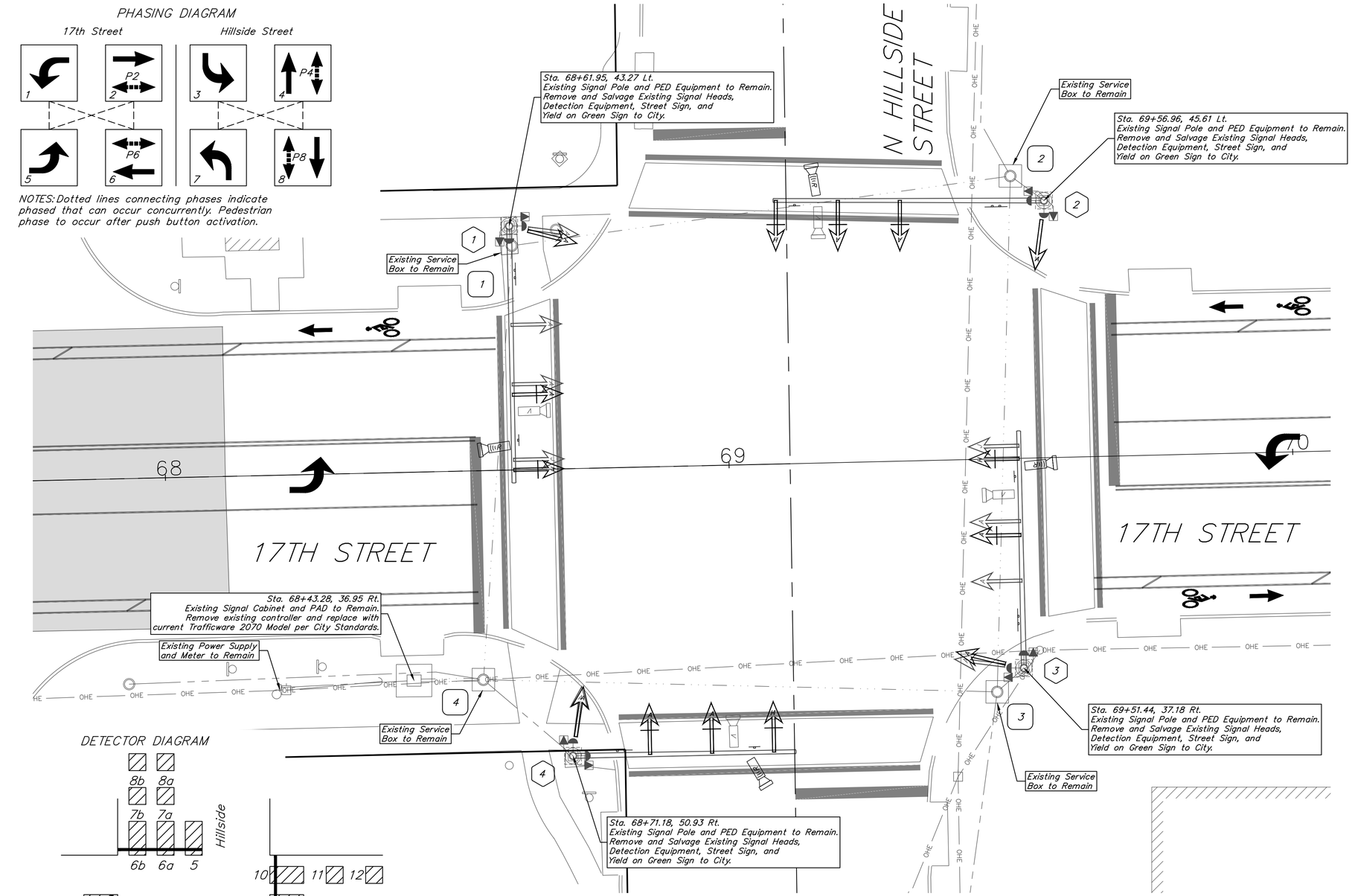
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	95	148

PHASING DIAGRAM

NOTES: Dotted lines connecting phases indicate phased that can occur concurrently. Pedestrian phase to occur after push button activation.

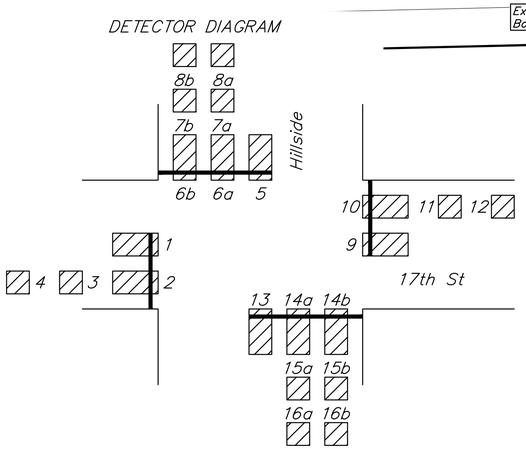
GENERAL NOTES:

1. Conduit runs are approximate and may be field adjusted to clear obstructions and facilitate wiring, as approved by the Engineer, and all conduit runs shall be straight between boxes and/or foundations.
2. Existing features and utilities are shown from available information and should be considered approximate only, it is the responsibility of the contractor to verify the utilities and their exact location prior to construction.
3. See Sheet 104 for Pavement Marking Plan and Layout.



10 0 10
Scale: 1" = 10'

DETECTOR DIAGRAM



SIGNAL PLAN
17TH ST & N HILLSIDE ST

EXISTING EQUIPMENT REMOVAL SUMMARY

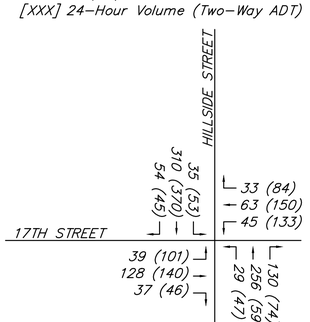
Location	Description of Item	Quantity
68+61.95, 43.27 Lt.	Pole 1: Signal Heads, Detection Equipment, and Signs	1
69+56.96, 45.61 Lt.	Pole 2: Signal Heads, Detection Equipment, and Signs	1
69+51.44, 37.18 Rt.	Pole 3: Signal Heads, Detection Equipment, and Signs	1
68+71.18, 50.93 Rt.	Pole 4: Signal Heads, Detection Equipment, and Signs	1

LEGEND:

- Existing Signal Head
- Existing Pedestrian Pole
- Existing Push Button
- Existing Signal
- Existing 3" Conduit
- Existing 2" Conduit
- Existing Sign
- Existing Service Box
- Traffic Signal Pole
- Traffic Signal Head
- Traffic Signal Head W/Backplate
- Radar Detection
- Video Detector
- Traffic Pedestrian Pole
- Pedestrian Push Button
- Pedestrian Signal
- 3" Conduit
- 2" Conduit
- 1 ½" Conduit
- Sign on 1 Bracket
- Sign on 2 Brackets
- Blank Out Sign
- Pole/PED Number
- Signal Number
- Phase Number
- Detector Number
- Service Box Number
- Service Box
- Power Meter Cabinet
- Traffic Signal Cabinet

PEAK HOUR VOLUMES

AM (PM) Peak Hour Volume
[XXX] 24-Hour Volume (Two-Way ADT)



AM Peak Hour = 7:30 - 8:30
PM Peak Hour = 5:00 - 6:00
Counts Conducted 05/18/23

BRENT CHESNUT
LICENSED
PE 23419
08/05/2025
KANSAS
PROFESSIONAL ENGINEER

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315 Ellis St.
Wichita, KS 67211
316-262-7271
BaughmanCo.com

CITY OF WICHITA
17TH STREET

SIGNAL PLAN - HILLSIDE

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

DESIGN: BDC DRAWN: BDC

DATE: August 5, 2025

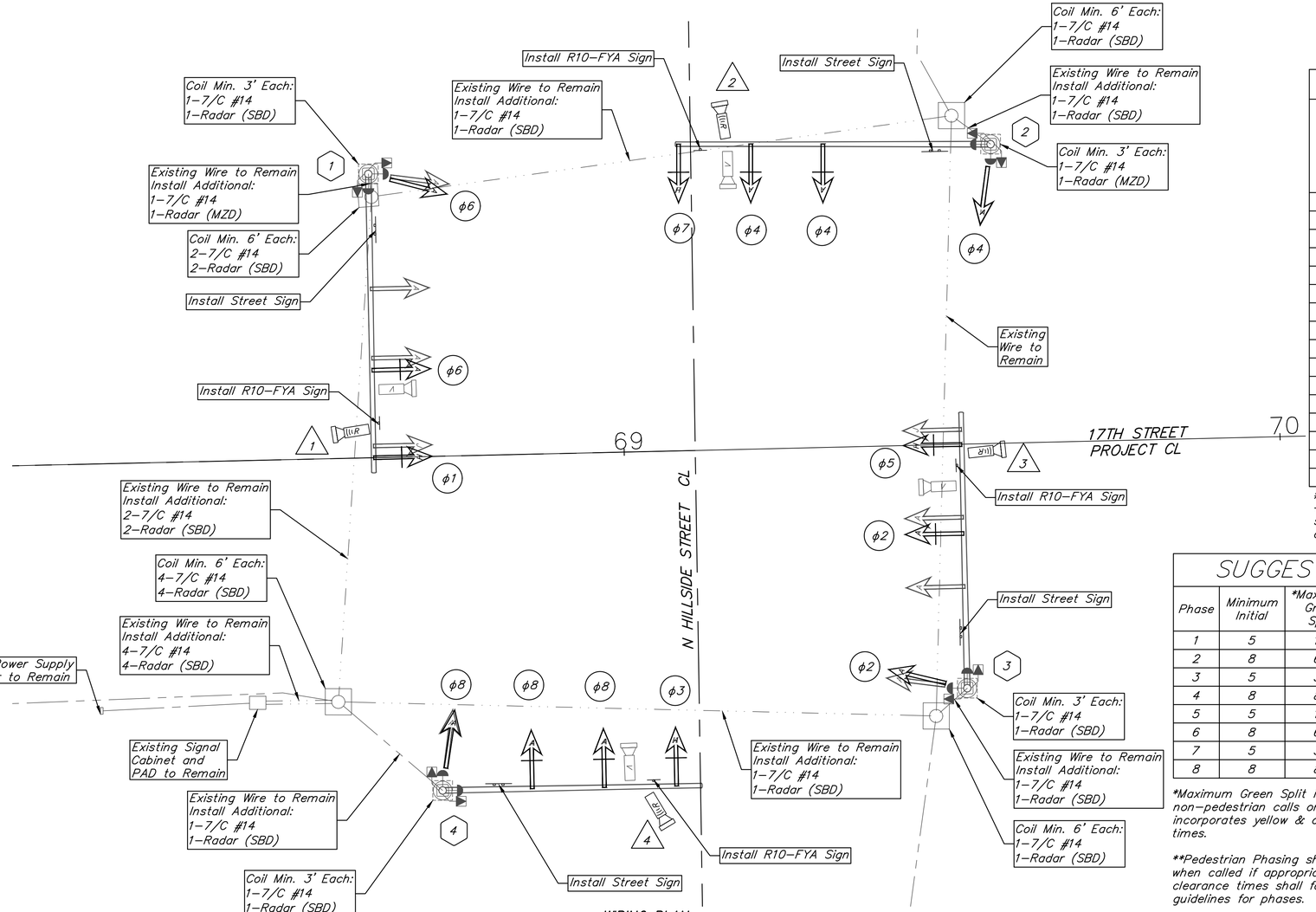
SHEET 95 OF 148

File: E:\Projects\Wichita 17th St I-135 to Hillside (23-04-E484)\Engineering\DWG\SIGNALIZATION.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	96	148

LEGEND:

- Traffic Signal Pole
- Traffic Signal Head
- Traffic Signal Head W/Backplate
- Radar Detection
- Video Detector
- Traffic Pedestrian Pole
- Pedestrian Push Button
- Pedestrian Signal
- 3" Conduit
- 2" Conduit
- 1 ½" Conduit
- Sign on 1 Bracket
- Sign on 2 Brackets
- Blank Out Sign
- 4 — Pole/PED Number
- 6a — Signal Number
- ϕ6 — Phase Number
- 2 — Detector Number
- 1 — Service Box Number
- Service Box
- Traffic Signal Cabinet
- Power Meter Cabinet



WIRING PLAN
17TH ST & N HILLSIDE ST

DETECTOR SUMMARY

Detector Number	Detection Zone Size	Stop Bar Detection	Advanced Detection	≠ Timings (sec) Total Stretch +Extension	≠ Timings (sec) Delay	Mode Presence	Mode Pulse	Phase Called	Distance from Stop Bar
1	6'x50'	X		2.5	0	X		5	5'
2	6'x50'	X		3	0	X		2	5'
3	6'x6'		X	3	0		X	2	92'
4	6'x6'		X	3	0		X	2	210'
5	6'x50'	X		2.5	0	X		3	5'
6a, 6b	6'x50'	X		3	0	X		8	5'
7a, 7b	6'x6'		X	3	0		X	8	92'
8a, 8b	6'x6'		X	3	0		X	8	210'
9	6'x50'	X		2.5	0	X		1	5'
10	6'x50'	X		3	0	X		6	5'
11	6'x6'		X	3	0		X	6	92'
12	6'x6'		X	3	0		X	6	210'
13	6'x50'	X		2.5	0	X		7	5'
14a, 14b	6'x50'	X		3	0	X		4	5'
15a, 15b	6'x6'		X	3	0		X	4	92'
16a, 16b	6'x6'		X	3	0		X	4	210'

≠ Timings shown in detector summary chart include that total stretch + extension. Detector timings shall be programmed into the traffic signal controller. See traffic signal general notes for advanced detection distance and timing.

SUGGESTED TIMINGS (SEC.)

Phase	Minimum Initial	*Maximum Green Split	**Pedestrian Walk	**Pedestrian FDW	**Pedestrian SDW	***Clearance Yellow	***Clearance All Red
1	5	15				3.0	1.0
2	8	60	8.0	17		4.0	2.0
3	5	30				3.0	1.0
4	8	80	8.0	20		4.0	2.0
5	5	15				3.0	1.0
6	8	60	8.0	17		4.0	2.0
7	5	30				3.0	1.0
8	8	80	8.0	20		4.0	2.0

*Maximum Green Split is for non–pedestrian calls only. Timing incorporates yellow & all red clearance times.

**Pedestrian Phasing shall extend phase when called if appropriate. Pedestrian clearance times shall follow MUTCD guidelines for phases.

***Signal Clearance Timings are calculated base on recommendations from NCHRP Report 731.

Clearance Design Speeds:
17th Street = 35 MPH
Hillside Street = 35 MPH

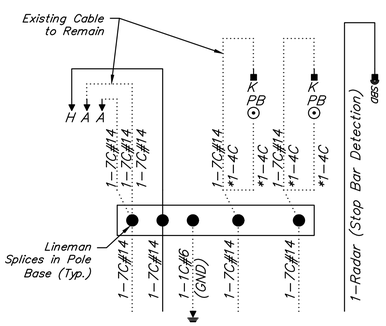
10 0 10
Scale: 1" = 10'

ABBREVIATIONS

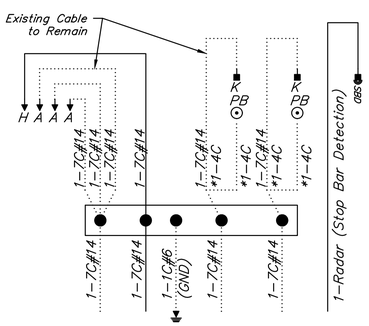
ADV	Advanced
BO	Blank Out Sign Cable
C	Conduit
COAX	Coaxial Cable
DET	Detector Lead–In Cable
FUT	Future Cable
GRC	Galvanized Rigid Conduit
GRND	Wire for Pole Ground
PB	Pushbutton
PED	Pedestrian Signal Cable
PMPT	Preemption Cable
MZD	Multi–Zone Detection
RADAR	Radar Detector Cable
SBD	Stop Bar Detection
SIG	Signal Cable
ST. LT.	Street Lighting Cable
.....	Existing Cable to Remain

*1–4C From Pedestrian Signal Head (K) to ADA Pushbutton Provided by Supplier

POLE WIRING DIAGRAM



POLE 1, 3



POLE 2, 4

LEGEND: Signal Head (X) | Video Detector | Radar Detector | PTZ CCTV | Luminaire | PED, Head (K) | Pushbutton (PB) | Ground | ST. LT. Connector Kit | Splice Connection

NOTES:

1. All multi–conductor wire shall be AWG #14 solid unless specified otherwise. Label each wire as shown in Part 700 Specifications of the Traffic Signalization Specifications.
2. All ground wire shall be #6 AWG copper wire in accordance with ATM B–3. Solid bare copper wire shall be used for all exterior installations including service and ground rod bonding. Otherwise, green insulated stranded wire type "THHN/THWN" shall be used.
3. Ground wire shall be bonded to each ground road at every pole, pedestal, service box, and controller to form one continuous ground circuit.
4. Detector cables should run continuous. Splices, if required, shall only occur in the pole base and must be approved by the City of Wichita Traffic Engineer.
5. In no case shall more than 60% of any conduit be filled by area.
6. Street lighting cable shall be spliced in service boxes. The splice shall be made waterproof.
7. Splices at pole base shall be lineman splices per section 702.21.11 of the Traffic Signalization Specifications. Terminal blocks will not be used.
8. All conduit shall be hot dipped galvanized rigid steel conduit (GRC) as shown in the Project Specifications.
9. During emergency flash operations, all signal phases shall be red indications. Pedestrian phase shall be dark.

BRENT CHESNUT LICENSED 23419 08/05/2025 KANSAS PROFESSIONAL ENGINEER

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BaughmanCo.com

CITY OF WICHITA
17TH STREET

WIRING PLAN - HILLSIDE

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

DESIGN: BDC DRAWN: BDC

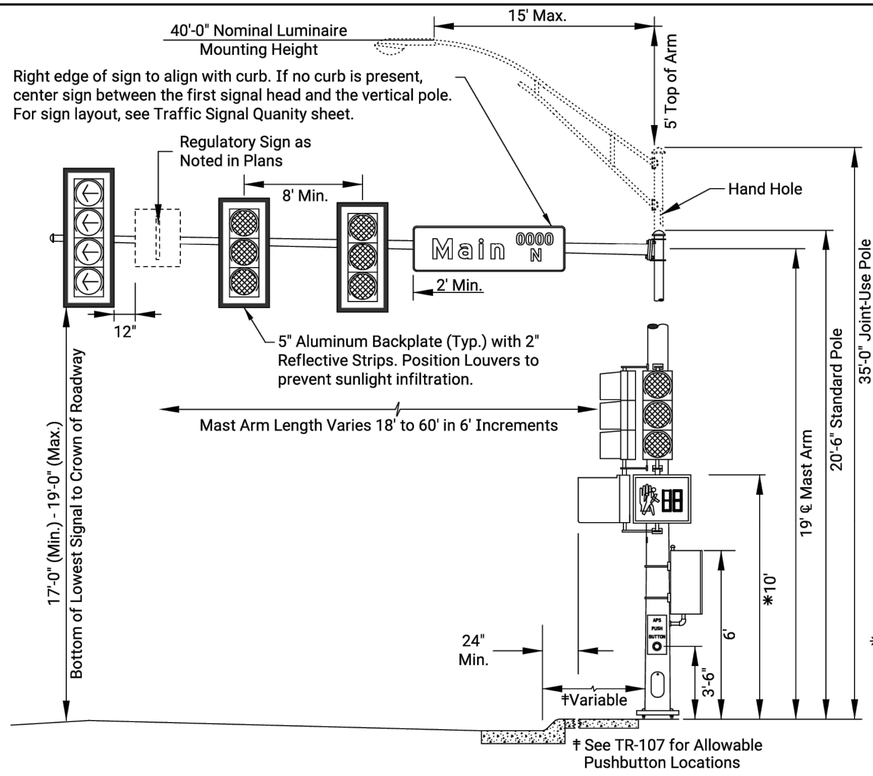
DATE: August 5, 2025

SHEET 96 OF 148

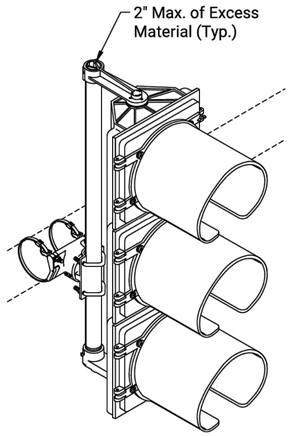
File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\SIGNALIZATION.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2024	97	XX

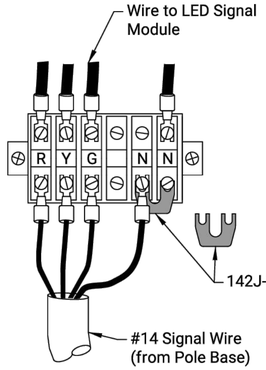
NOTE TO DESIGNER: Mast arm length shall be a minimum of 2 feet longer than last signal head. See "Signal Pole Data and Specification" for standard mast arm lengths and luminaire heights.



✳ NOTE:
Pedestrian signal heads shall be mounted so the top of signal head is at 10' above sidewalk level. Bottom of pedestrian head shall be 7' minimum from sidewalk level.

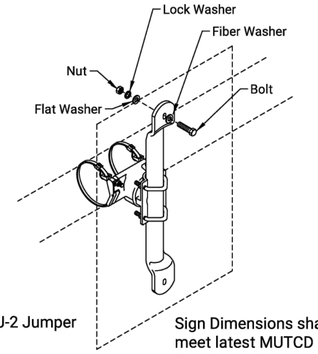


RIGID SIGNAL MOUNTING DETAIL



SIGNAL HEAD JUMPER DETAIL

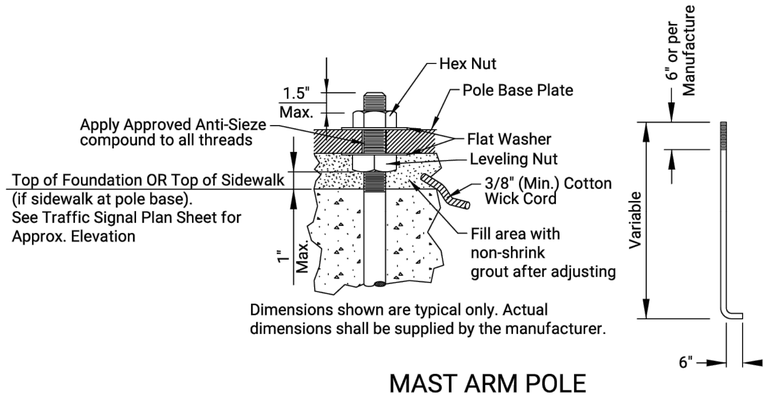
Example for 3-Section Head Shown



Sign Dimensions shall meet latest MUTCD Requirements

SIGN MOUNTING BRACKET DETAIL SIGNS OVER 18" TALL (R10 SERIES)

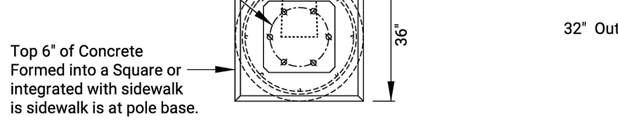
NOTE:
1. THE CITY STANDARD TRAFFIC SIGNAL POLE FOUNDATION DESIGN IS ACCEPTABLE FOR A MAXIMUM MAST ARM SPAN OF UP TO 60 FEET WITH A 13'-0" DEEP FOOTING SHAFT. IF A LONGER MAST ARM IS REQUIRED, SIGNAL POLE FOUNDATION DESIGN CALCULATIONS MUST BE SUBMITTED TO THE CITY FOR REVIEW.
2. MINIMUM SOIL PROPERTIES FOR THESE LENGTHS ARE EITHER "PHI" OF 5° OR GREATER OR A MINIMUM "C" VALUE OF 500 PSF OR GREATER. SOILS HAVING PROPERTIES LESS THAN EITHER OF THESE MUST HAVE CALCULATIONS SUBMITTED TO THE CITY FOR REVIEW.
3. THE ANCHOR BOLTS FOR THE SIGNAL POLE MAY BE TACK WELDED TOGETHER IN BOLT PATTERN (ON CENTERS AS SHOWN) TO MAINTAIN REQUIRED BOLT CONFIGURATION PATTERN AND TO AID IN VERTICAL POSITIONING WHILE CONCRETE BASE IS POURED.
4. USE ANTI-SEIZE COMPOUND ON ALL THREADS.
5. GROUND RODS TO BE POSITIONED AND SHOWN TO INSPECTOR BEFORE POURING BASE.
6. GROUND RODS FOR TRAFFIC SIGNAL MAST ARM POLES AND 342 CABINETS SHOULD BE 3/4" X 20'. TWO (2) 3/4" X 12' GROUND RODS MAY BE USED IN LIEU OF A SINGLE 20' GROUND ROD. ALL OTHER GROUND RODS SHALL BE 3/4" X 12'.
7. CONCRETE SHALL MEET THE REQUIREMENTS OF GRADE 4.0 PER SPECIFICATIONS.
8. CONSTRUCT SQUARE CONCRETE CAP AFTER POLE HAS BEEN ERECTED & PLUMBED. CHAMFER EDGE 1". MUST BE APPROVED BY ENGINEER BEFORE POURED.
9. CONDUIT SHALL HAVE PLASTIC (OR METAL) BUSHING (ABOVE BASE) TO PREVENT CABLE CHAFING.
10. RUBBER GROMMETS SHALL BE INSTALLED FOR WIRE ENTRANCE HOLES AT EACH PENETRATION LOCATION. HOLES MAY BE FIELD DRILLED AS PER MANUFACTURE SIZE AND PROCEDURES.
11. HOLE(S) FOR WIRING SHOULD BE 7/8" MINIMUM DIAMETER AND MUST BE DEBURRED TO PREVENT DAMAGE. SPARE/EMPTY HOLES SHALL BE FILLED WITH TRADE-SIZE SMOOTH-FACE CONDUIT CLOSURE(S) OR AS DIRECTED BY CITY TRAFFIC SIGNAL MAINTENANCE.
12. USE #6 BARE COPPER GROUND CONDUCTOR FROM CLAMP TO GROUND BOLT IN ACCESS HOLE.
13. IN THE EVENT SOUND BEDROCK IS ENCOUNTERED AT A DEPTH LESS THAN STANDARD, CONTRACTOR SHALL NOT PROCEED WITHOUT ENGINEER APPROVAL OF SOCKET DEPTH.
14. IT MAY BE NECESSARY TO USE A CONCRETE FORM/SONOTUBE FOR THE SIGNAL AND PEDESTRIAN POLE BASES WHERE PREVIOUS EXCAVATION MAY HAVE OCCURRED OR SANDY SOILS. IT IS EXPECTED THAT THE SIGNAL AND PEDESTRIAN POLES' LOCATIONS WILL NOT BE CHANGED AND IT IS UP TO THE CONTRACTOR TO ACCOUNT FOR CONCRETE FORMS WITHIN THEIR BID IF THEY ARE NEEDED FOR POSSIBLE UNSTABLE SOIL CONDITIONS.

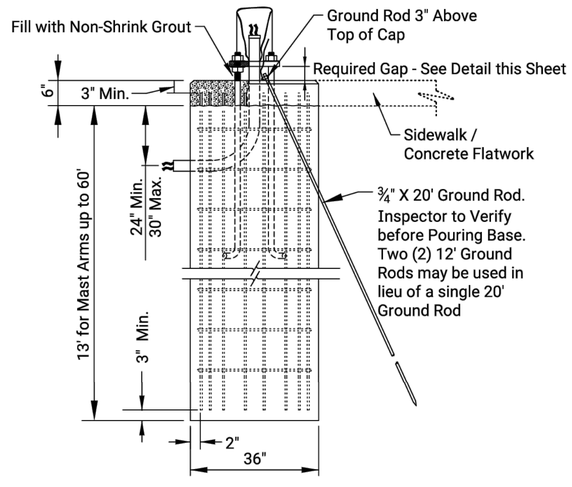


Dimensions shown are typical only. Actual dimensions shall be supplied by the manufacturer.

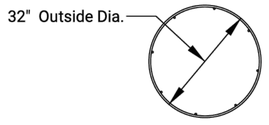
MAST ARM POLE ANCHOR BOLT DETAIL

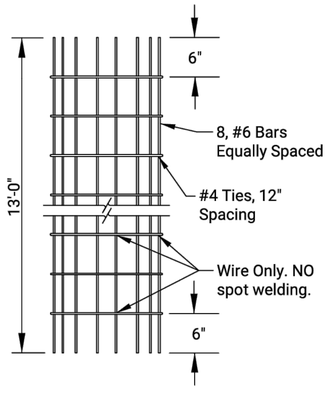
1. Under no circumstance shall the bolt-flange of the pole be recessed in concrete.
2. The space between Pole Base Plate and Top of Foundation shall not exceed the diameter of the anchor bolt.
3. The anchor bolt threads shall be protected from concrete fouling during concrete placement.





MAST ARM POLE & BASE DETAIL





MAST ARM POLE REBAR CAGE DETAIL

(FOR MAST ARMS UP TO 60')

NO.	DATE	REVISIONS	BY	APP'D
3				
2				
1				

CITY OF WICHITA
PUBLIC WORKS & UTILITIES ENGINEERING DIVISION

TRAFFIC SIGNAL INSTALLATION DETAIL SHEET

TRAFFIC ENGINEER — APP'D 01/27/22
MIKE ARMOUR, P.E.

PROJECT NUMBER	ORG NUMBER	DATE
472-2023-085860 23-04-E484	40107823	8/5/25

CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

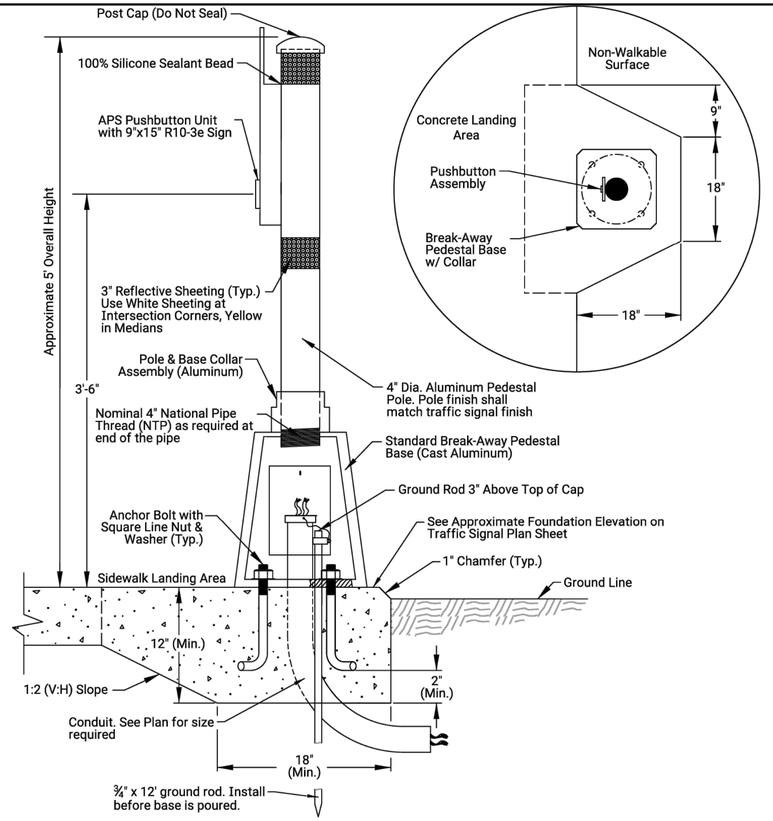
SHEET 97

TR-105

E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\SIGNALIZATION.dwg

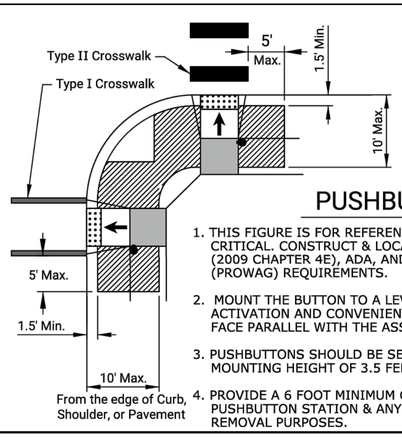
NOTE TO DESIGNER: Designer shall verify that pedestrian features and locations meet MUTCD requirements (latest edition)

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2024	98	XX



APS PUSHBUTTON STATION

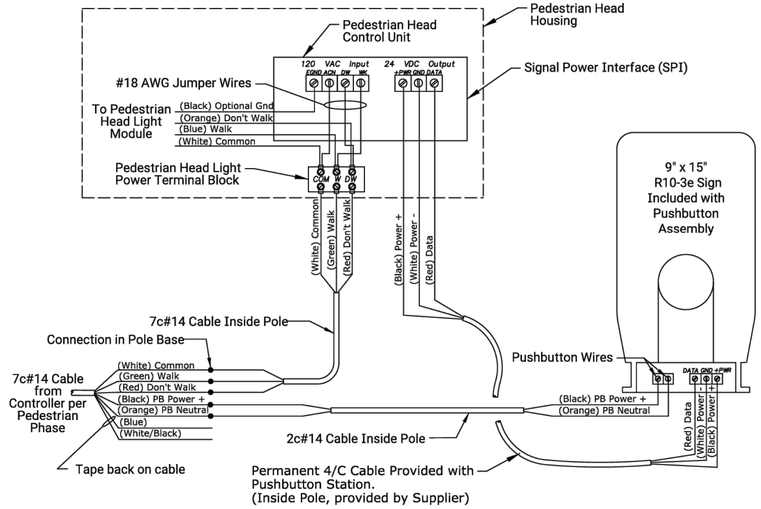
1. PLUMB THE PUSHBUTTON STATION WITH GALVANIZED STEEL LEVELING SHIMS AS REQUIRED.
2. USE #6 BARE COPPER GROUND CONDUCTOR FROM CLAMP TO GROUND BOLT IN ACCESS HOLE.
3. THE PUSHBUTTON STATION FOUNDATION HAS TWO (2) OPTIONS. BOTH OPTIONS ARE SUBSIDIARY TO THE APS PUSHBUTTON STATION AND NO ADDITIONAL PAYMENT WILL BE MADE REGARDLESS OF FOUNDATION TYPE.
   A. POURED MONOLITHIC WITH THE SIDEWALK (SHOWN ABOVE) - PROVIDE A 1:2 (V:H:) SLOPE GRADE WHERE THE SIDEWALK DEPTH TRANSITIONS TO THE 12" FOUNDATION DEPTH.
   B. ALTERNATIVE FOUNDATION DESIGN - PLACE FOUNDATION AS SHOWN ON STANDARD SHEET "TRAFFIC SIGNAL INSTALLATION DETAIL SHEET". THIS 24" FOUNDATION WILL MATCH THE TRAFFIC SIGNAL PEDESTAL BASE. PROVIDE A BOND BREAKER OR EXPANSION JOINT TO SEPARATE FOUNDATION FROM SIDEWALK.



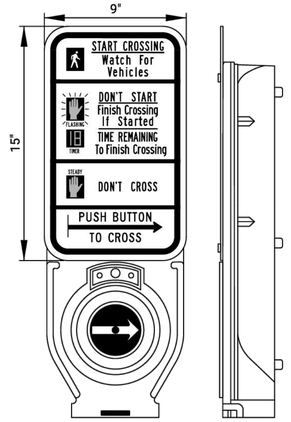
LEGEND
- Allowed Pushbutton Location (1.5'-10' Max)
- Landing Area (5' Min. & 2% Max Slope per ADA)
- Preferred Pushbutton Location (At back of Ramp)
- Detectable Warning (per ADA)
- Downward Slope (5% Max.)

PUSHBUTTON LOCATION AREA

1. THIS FIGURE IS FOR REFERENCE ONLY AND PLACEMENT OF THE PUSHBUTTON STATION IS CRITICAL. CONSTRUCT & LOCATE PUSHBUTTONS IN ACCORDANCE WITH CURRENT MUTCD (2009 CHAPTER 4E), ADA, AND PUBLIC RIGHTS OF WAY ACCESSIBILITY GUIDELINES (PROWAG) REQUIREMENTS.
2. MOUNT THE BUTTON TO A LEVEL, ALL-WEATHER SURFACE THAT IS CAPABLE OF EASY ACTIVATION AND CONVENIENTLY LOCATED NEAR EACH END OF THE CROSSWALK WITH THE FACE PARALLEL WITH THE ASSOCIATED CROSSWALK.
3. PUSHBUTTONS SHOULD BE SEPARATED BY A DISTANCE OF AT LEAST 10 FEET WITH A MOUNTING HEIGHT OF 3.5 FEET (42 INCHES), ABOVE THE SIDEWALK.
4. PROVIDE A 6 FOOT MINIMUM CLEAR DISTANCE WHEREVER POSSIBLE BETWEEN A PUSHBUTTON STATION & ANY VERTICAL OBSTRUCTIONS FOR MAINTENANCE & SNOW REMOVAL PURPOSES.



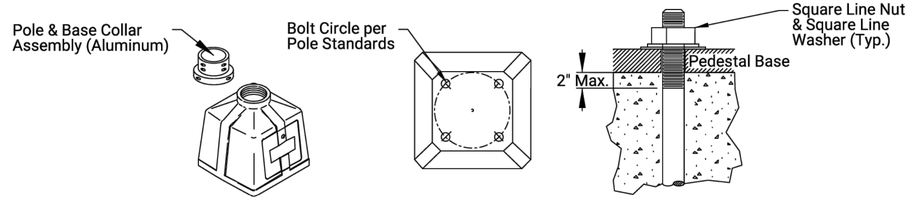
PEDESTRIAN PUSHBUTTON WIRING DIAGRAM



APS PUSHBUTTON SYSTEM & SIGN (R10-3E, 9"x15")

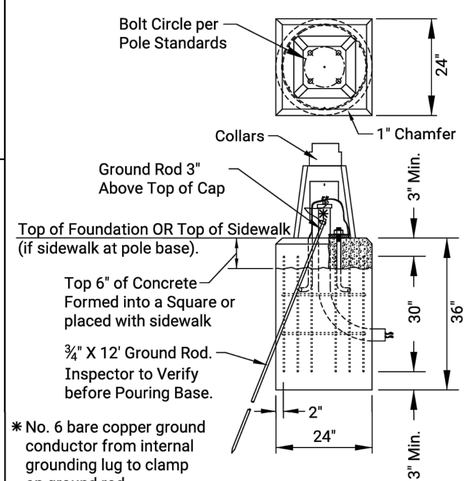
NOTE:

1. THE PUSHBUTTON SYSTEM AND SIGN SHALL MEET OR EXCEED CURRENT MUTCD AND ADA REQUIREMENTS.
2. PUSHBUTTON SYSTEM SHOULD INCLUDE INSTALLATION AND MOUNTING HARDWARE.
3. THE PUSHBUTTON SYSTEM SHOULD INCLUDE A FOUR CONDUCTOR (4/C) CABLE CONNECTING THE SIGNAL POWER INTERFACE (SPI) IN THE PEDESTRIAN SIGNAL HEAD TO THE PUSHBUTTON ASSEMBLY. THE CABLE IS NOT SPECIFICALLY QUANTIFIED OR INCLUDED IN THE TRAFFIC SIGNAL BILL OF MATERIALS. CABLE AND INSTALLATION IS SUBSIDIARY TO THE PUSHBUTTON SYSTEM.
4. SEE "TRAFFIC SIGNAL WIRING & TIMING DETAILS" FOR PEDESTRIAN TIMING AND EXTENSIONS.
5. THE PUSHBUTTON SYSTEM SHALL PROVIDE THE FOLLOWING MINIMUM STANDARD FEATURES:
   A. VANDAL RESISTANT HOUSING
   B. BOTH AUDIBLE AND VIBROTACTILE WALK INDICATIONS.
   C. THE AUDIBLE WALK INDICATION SHALL BE CAPABLE OF BOTH A PERCUSSIVE TONE & SPEECH WALK MESSAGE AS REQUIRED BY MUTCD
   D. LOCATOR TONE AND HIGH CONTRAST TACTILE ARROW(S) ALIGNED PARALLEL TO THE ASSOCIATED CROSSWALK DIRECTION OF TRAVEL.
   E. AUTOMATIC SOUND ADJUSTMENT IN RESPONSE TO AMBIENT SOUND LEVEL

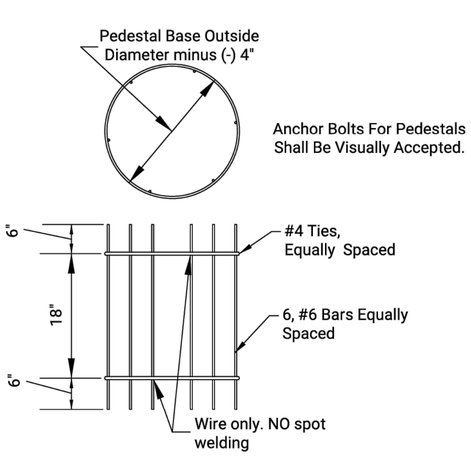


STANDARD BREAK-AWAY PEDESTAL BASE & ANCHOR BOLT DETAIL

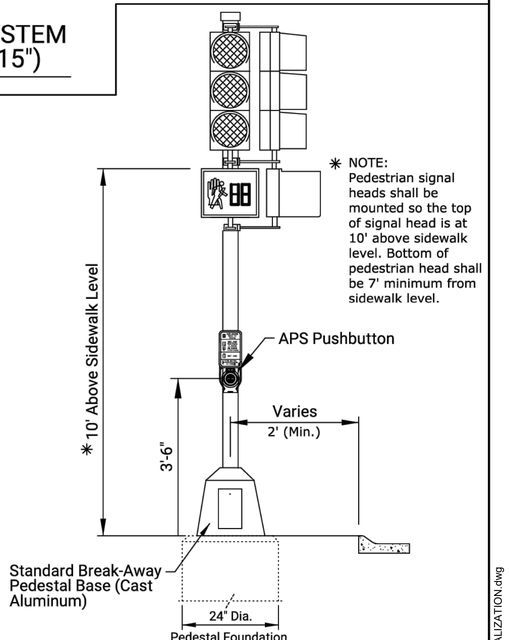
1. STANDARD BREAK-AWAY PEDESTAL BASE SHALL BE USED ON BOTH THE TRAFFIC SIGNAL PEDESTAL AND APS PUSHBUTTON STATION.
2. USE SQUARE LINE NUTS AND WASHERS ON PEDESTAL BASE.
3. ANCHOR BOLTS FOR PEDESTALS SHALL BE VISUALLY ACCEPTED.



PEDESTAL & APS PUSHBUTTON FOUNDATION DETAIL



PEDESTAL & APS PUSHBUTTON REBAR CAGE DETAIL



TRAFFIC SIGNAL PEDESTAL

SEE STANDARD SHEET "TRAFFIC SIGNAL INSTALLATION DETAIL SHEET" FOR PEDESTRIAN FOUNDATION DETAILS.

NO.	DATE	REVISIONS	BY	APP'D
3				
2				
1				

CITY OF WICHITA
PUBLIC WORKS & UTILITIES ENGINEERING DIVISION

SIGNAL PEDESTAL, PUSHBUTTON STATION, & APS PUSHBUTTON DETAILS

TRAFFIC ENGINEER — APP'D 01/27/22
MIKE ARMOUR, P.E.

PROJECT NUMBER	ORG NUMBER	DATE
472-2023-085860 23-04-E484	40107823	8/5/25

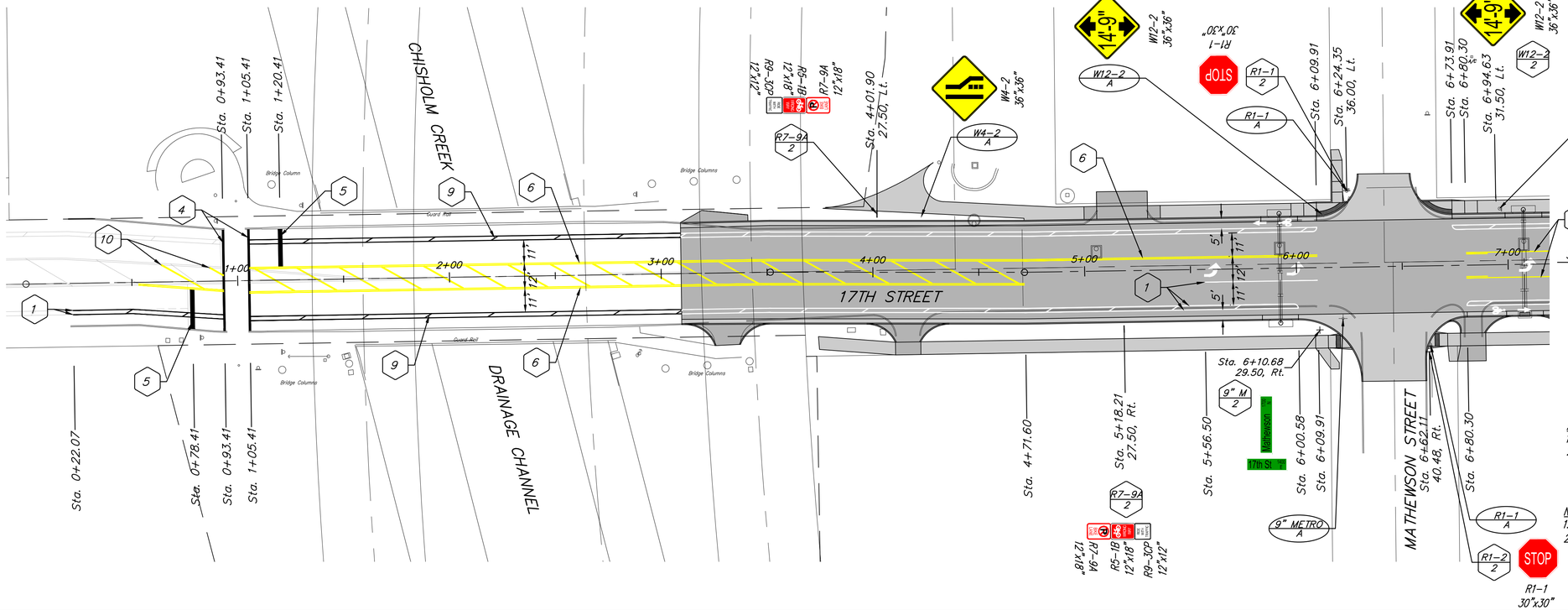
CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

SHEET 98

TR-107

E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\SIGNALIZATION.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	99	148



SIGN LEGEND:

Proposed Sign

Sign Assembly Number — R1-2 / 1 — Denotes General Note No.

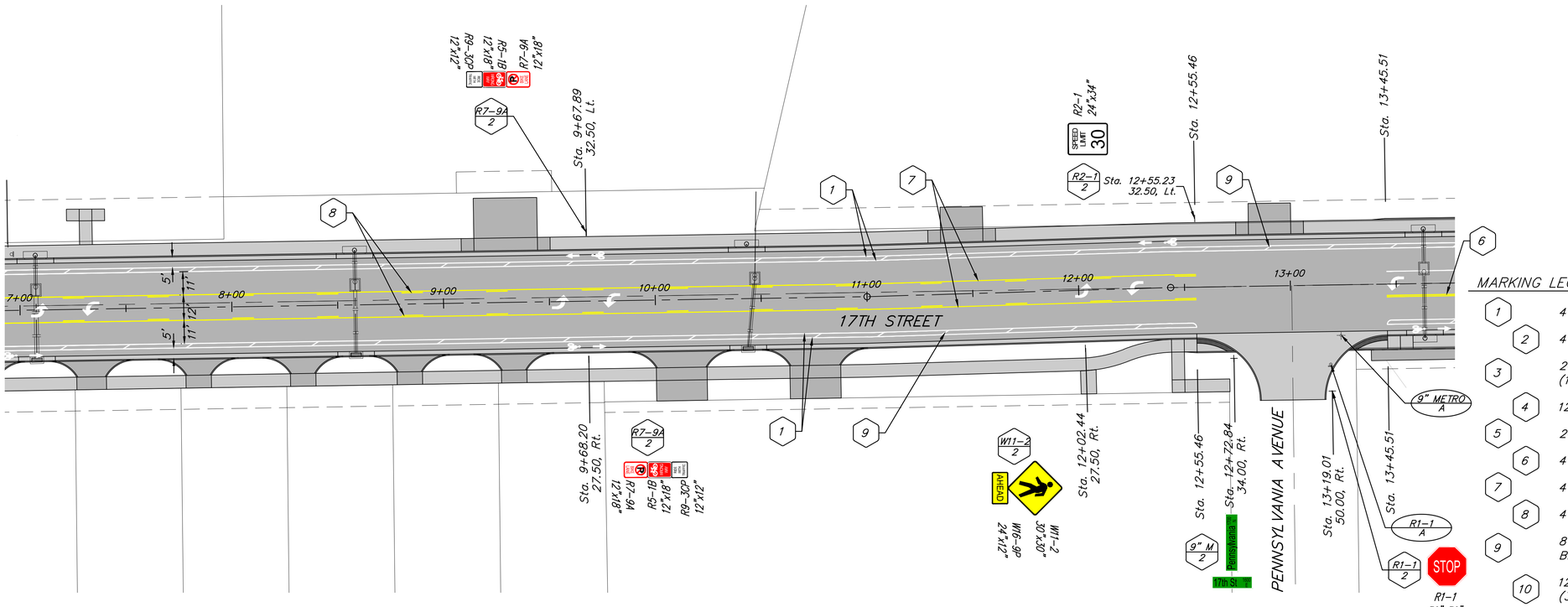
Existing Sign

Sign Assembly Number — R1-1 / D — Denotes Action

ACTION
1 – Relocated Signed
2 – New Sign and Post

ACTION
A – Remove & Salvage to Owner
B – Relocate
C – Remove & Dispose
D – Sign to Remain in Place

NOTES
1. Save & Reset Sign on Existing Sign Post
2. Bottom of signs to be installed 7' above ground and set 3' behind curb unless shown otherwise..



MARKING LEGEND:

1. 4" Solid WHITE – Lane Line
2. 4" Dotted WHITE – Lane Line
3. 24" Solid WHITE Crosswalk (10' Length, 5' Spacing Max)
4. 12" Solid WHITE Crosswalk Line
5. 24" Solid WHITE Stop Line
6. 4" Solid YELLOW – Double Center Line
7. 4" Solid YELLOW – Single Center Line
8. 4" Broken YELLOW – Center Line
9. 8" Solid WHITE Diagonal Bike Buffer (30')(20' Spacing)
10. 12" Solid YELLOW Diagonal (30')(20' Spacing)

BRENT CHESNUT LICENSED 23419 08/05/2025 KANSAS PROFESSIONAL ENGINEER

BAUGHMAN COMPANY
315 Ellis St.
Wichita, KS 67211
316-262-7271
BaughmanCo.com

CITY OF WICHITA
17TH STREET

MARKING & SIGN PLAN 1

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

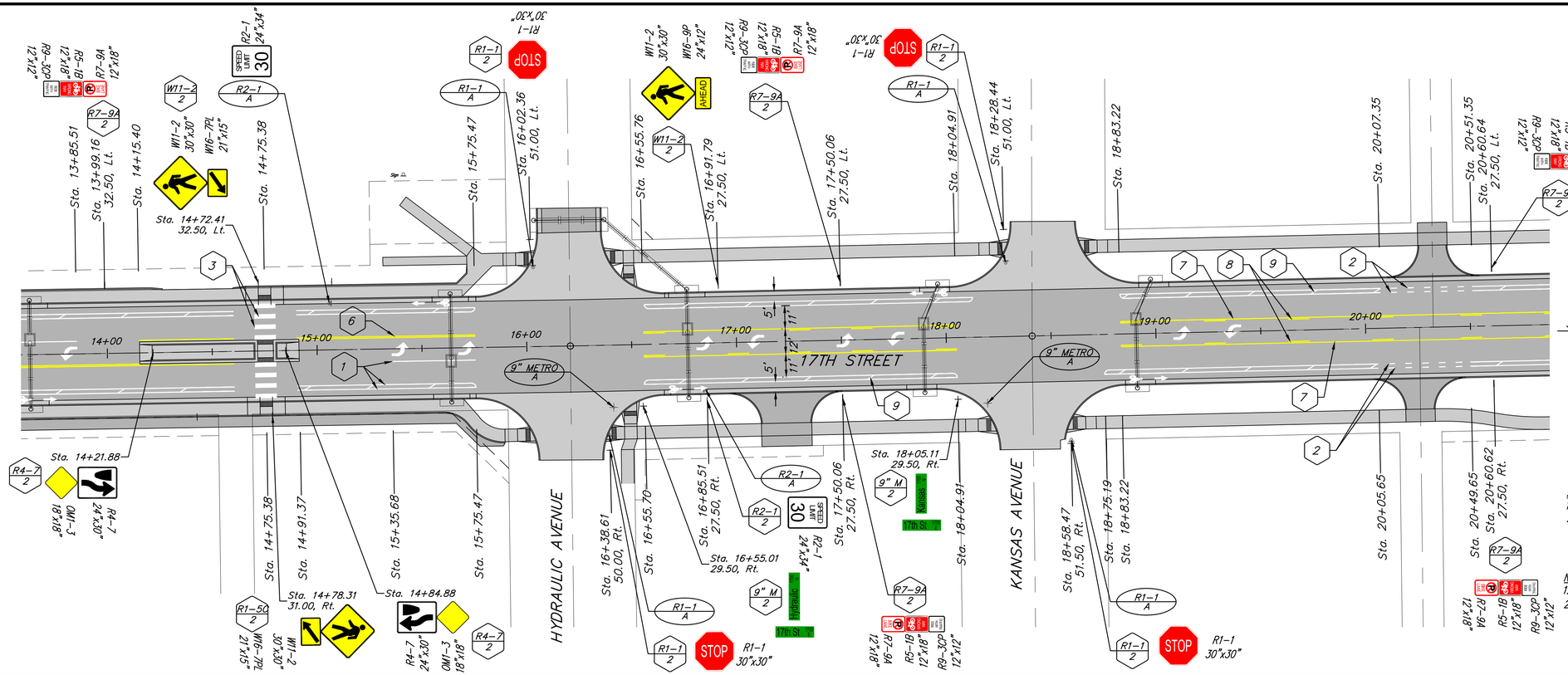
DESIGN: TMS DRAWN: TMS

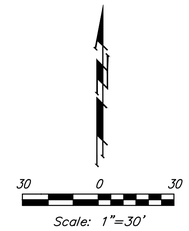
DATE: August 5, 2025

SHEET 99 OF 148

File: E:\Projects\Wichita 17th St. I-135 to Hillside (23-04-E484)\Engineering\DWG\MARKING & SIGN PLAN.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	100	148





SIGN LEGEND:

Proposed Sign

Sign Assembly Number

R1-2 / 1

Denotes General Note No.

Existing Sign

Sign Assembly Number

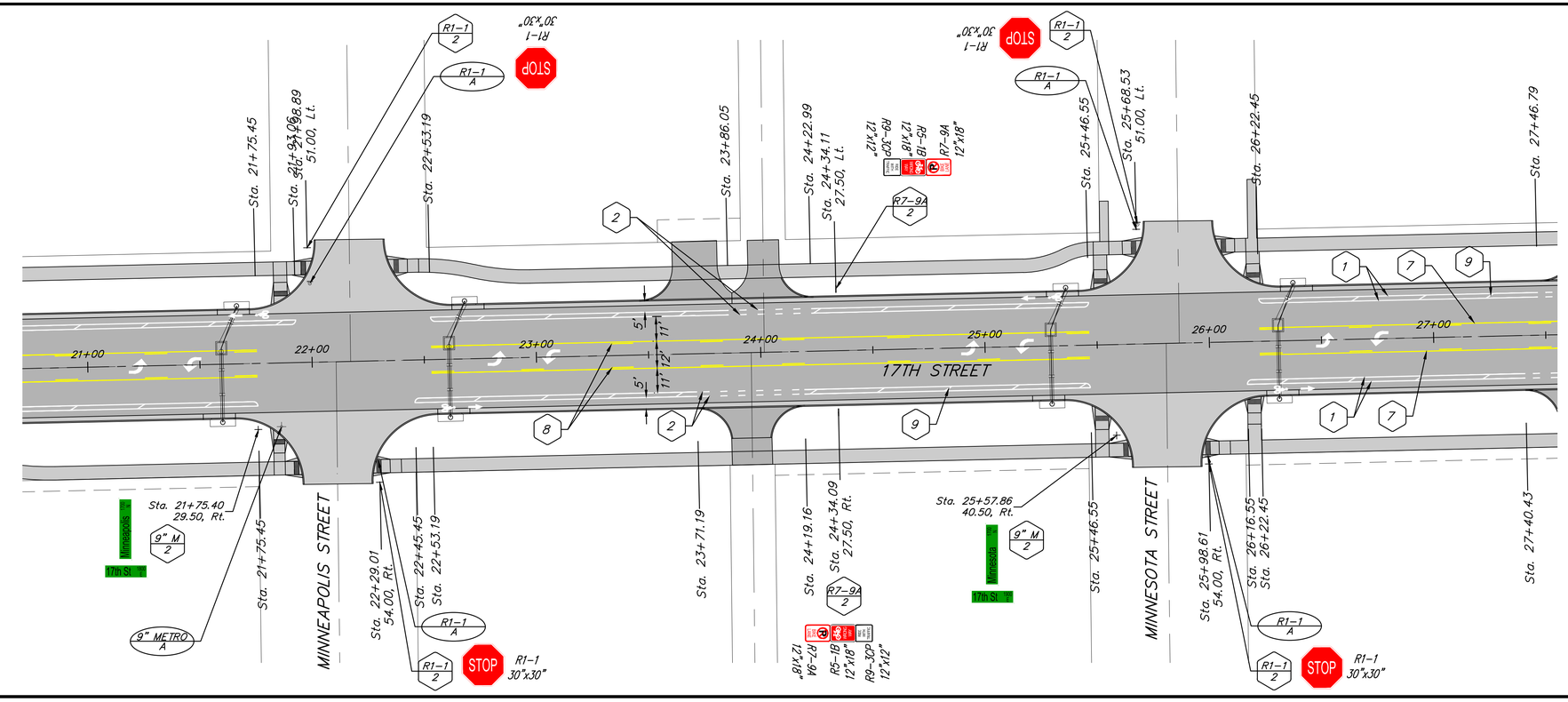
R1-1 / D

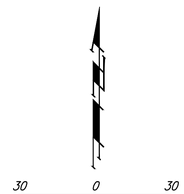
Denotes Action

ACTION
1 – Relocated Signed
2 – New Sign and Post

ACTION
A – Remove & Salvage to Owner
B – Relocate
C – Remove & Dispose
D – Sign to Remain in Place

NOTES
1. Save & Reset Sign on Existing Sign Post
2. Bottom of signs to be installed 7' above ground and set 3' behind curb unless shown otherwise..





MARKING LEGEND:

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7. 4" Solid YELLOW – Single Center Line
8. 4" Broken YELLOW – Center Line
9. 8" Solid WHITE Diagonal Bike Buffer (30')(20' Spacing)
10. 12" Solid YELLOW Diagonal (30')(20' Spacing)

BRENT CHESNUT
LICENSED
23419
08/05/2025
KANSAS
PROFESSIONAL ENGINEER

BAUGHMAN COMPANY
315 Ellis St.
Wichita, KS 67211
316-262-7271
BaughmanCo.com

CITY OF WICHITA
17TH STREET

MARKING & SIGN PLAN 2

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

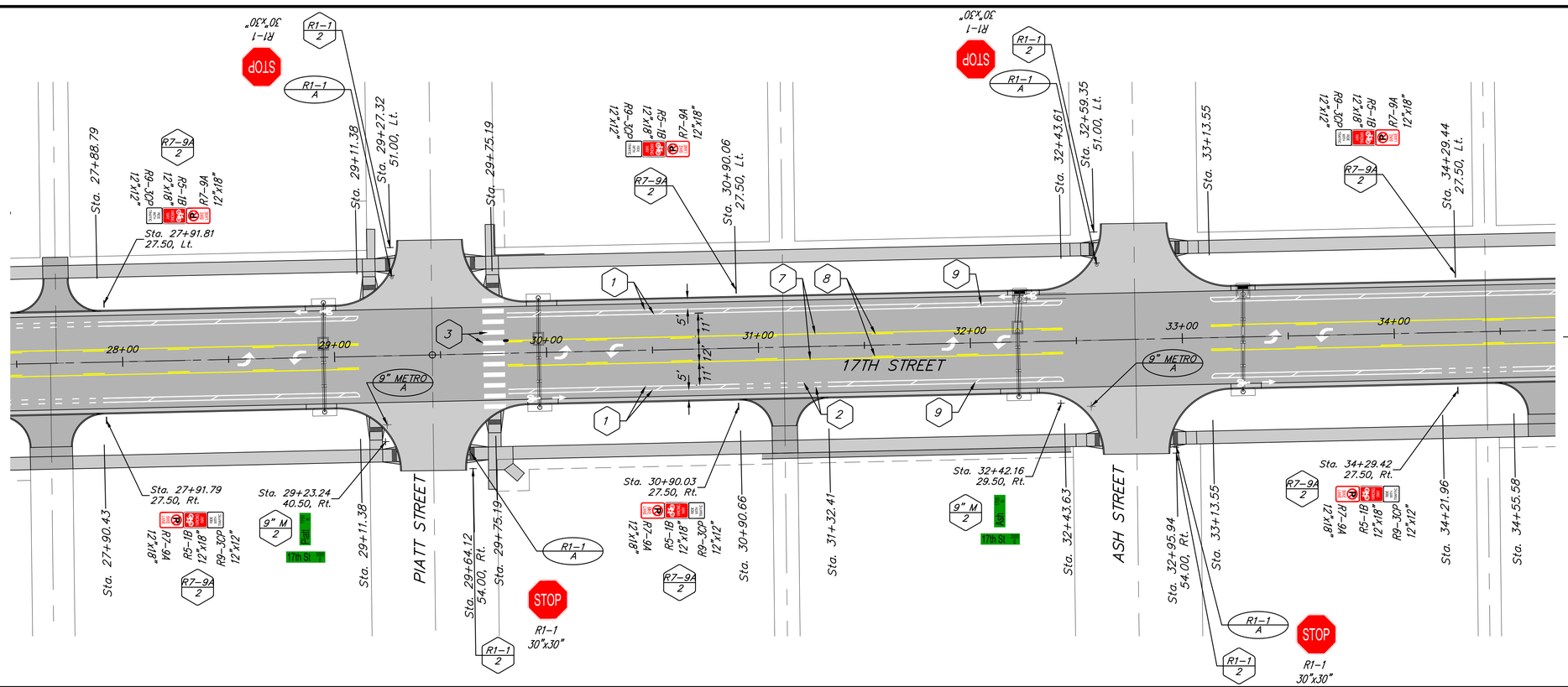
DESIGN: TMS DRAWN: TMS

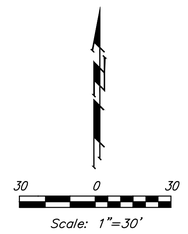
DATE: August 5, 2025

SHEET 100 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\MARKING & SIGN PLAN.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	101	148





SIGN LEGEND:

Proposed Sign

- Sign Assembly Number
- Denotes General Note No.

Existing Sign

- Sign Assembly Number
- Denotes Action

ACTION
1 – Relocated Signed
2 – New Sign and Post

ACTION
A – Remove & Salvage to Owner
B – Relocate
C – Remove & Dispose
D – Sign to Remain in Place

NOTES
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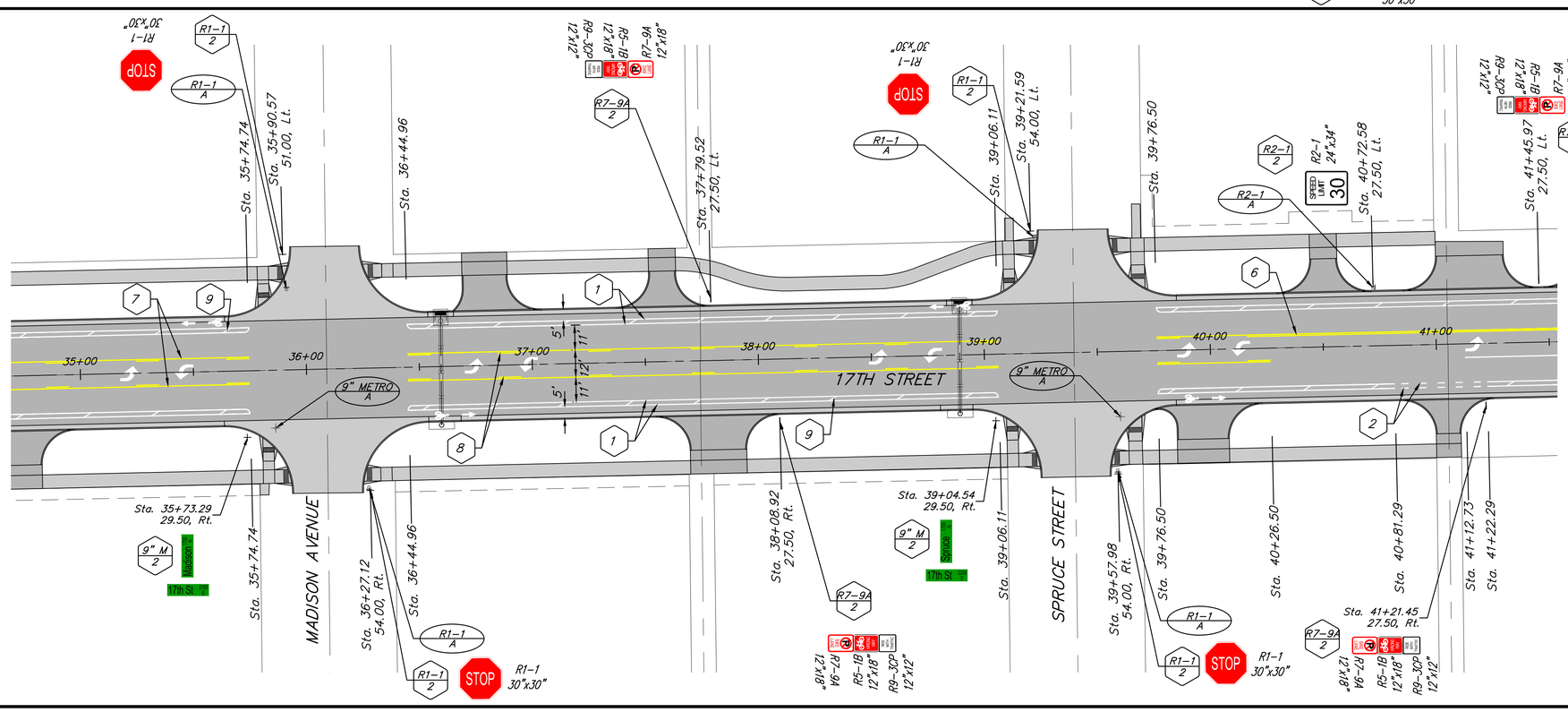

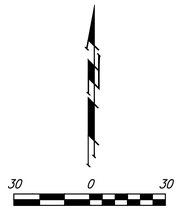

MARKING LEGEND:

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BRENT CHESNUT
LICENSED
23419
08/05/2025
KANSAS
PROFESSIONAL ENGINEER

BAUGHMAN COMPANY
315 Ellis St.
Wichita, KS 67211
316-262-7271
BaughmanCo.com

CITY OF WICHITA
17TH STREET

MARKING & SIGN PLAN 3

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

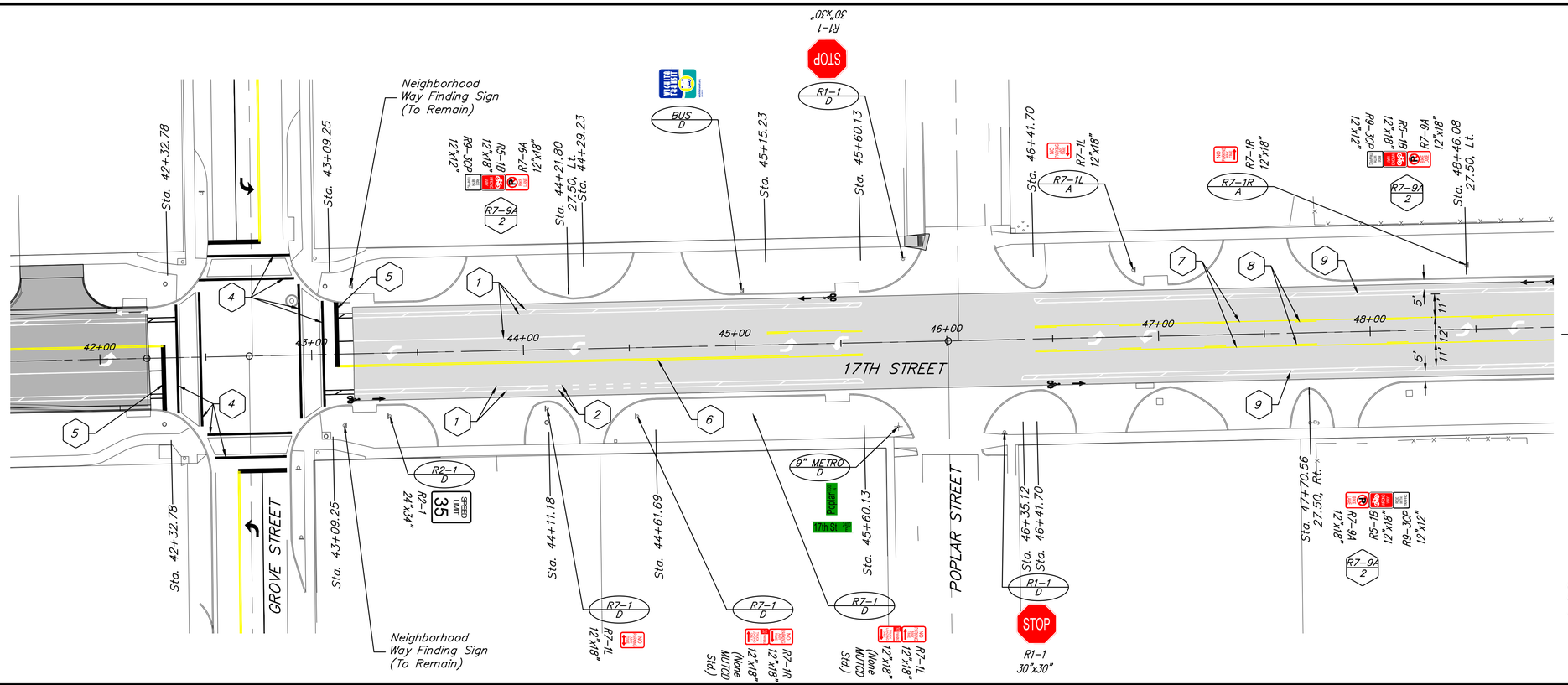
DESIGN: TMS DRAWN: TMS

DATE: August 5, 2025

SHEET 101 OF 148

File: E:\Projects\Wichita 17th St. I-135 to Hillside (23-04-E484)\Engineering\DWG\MARKING & SIGN PLAN.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	102	148



30 0 30

Scale: 1"=30'

SIGN LEGEND:

Proposed Sign

Existing Sign

Sign Assembly Number

R1-2 1

Denotes General Note No.

Sign Assembly Number

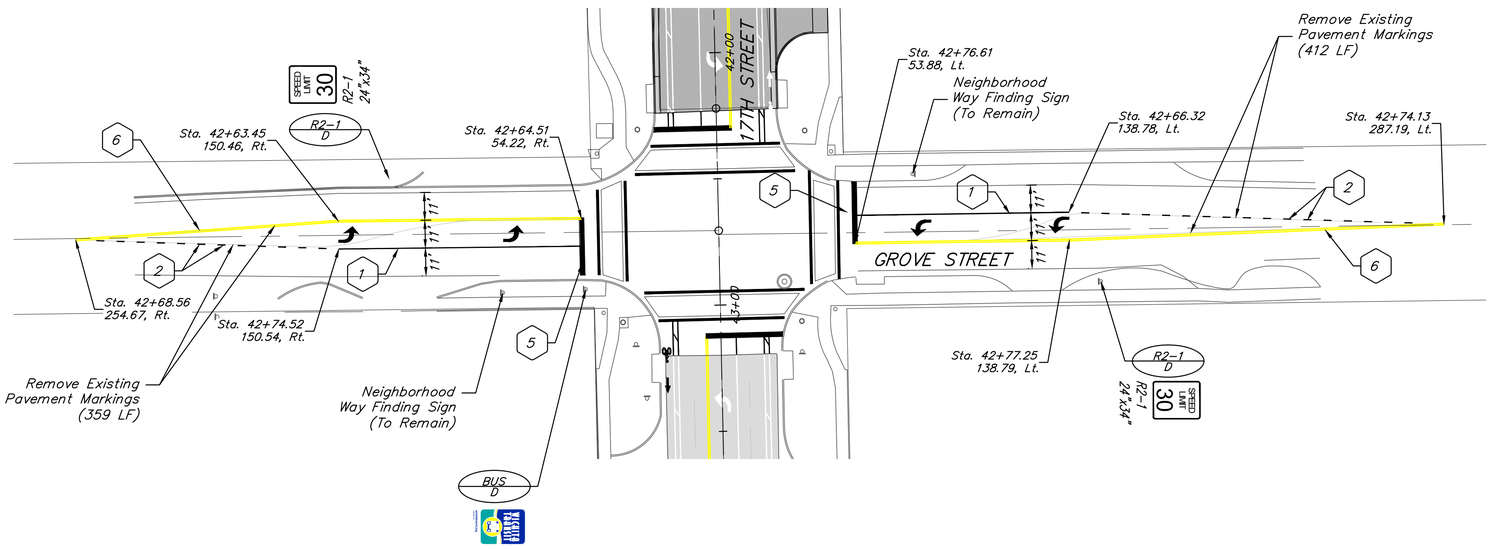
R1-1 D

Denotes Action

ACTION
1 – Relocated Signed
2 – New Sign and Post

ACTION
A – Remove & Salvage to Owner
B – Relocate
C – Remove & Dispose
D – Sign to Remain in Place

NOTES
1. Save & Reset Sign on Existing Sign Post
2. Bottom of signs to be installed 7' above ground and set 3' behind curb unless shown otherwise..



30 0 30

Scale: 1"=30'

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BRENT CHESNUT LICENSED
23419
08/05/2025
KANSAS PROFESSIONAL ENGINEER

BAUGHMAN COMPANY
315 Ellis St.
Wichita, KS 67211
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BaughmanCo.com

CITY OF WICHITA
17TH STREET

MARKING & SIGN PLAN 4

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

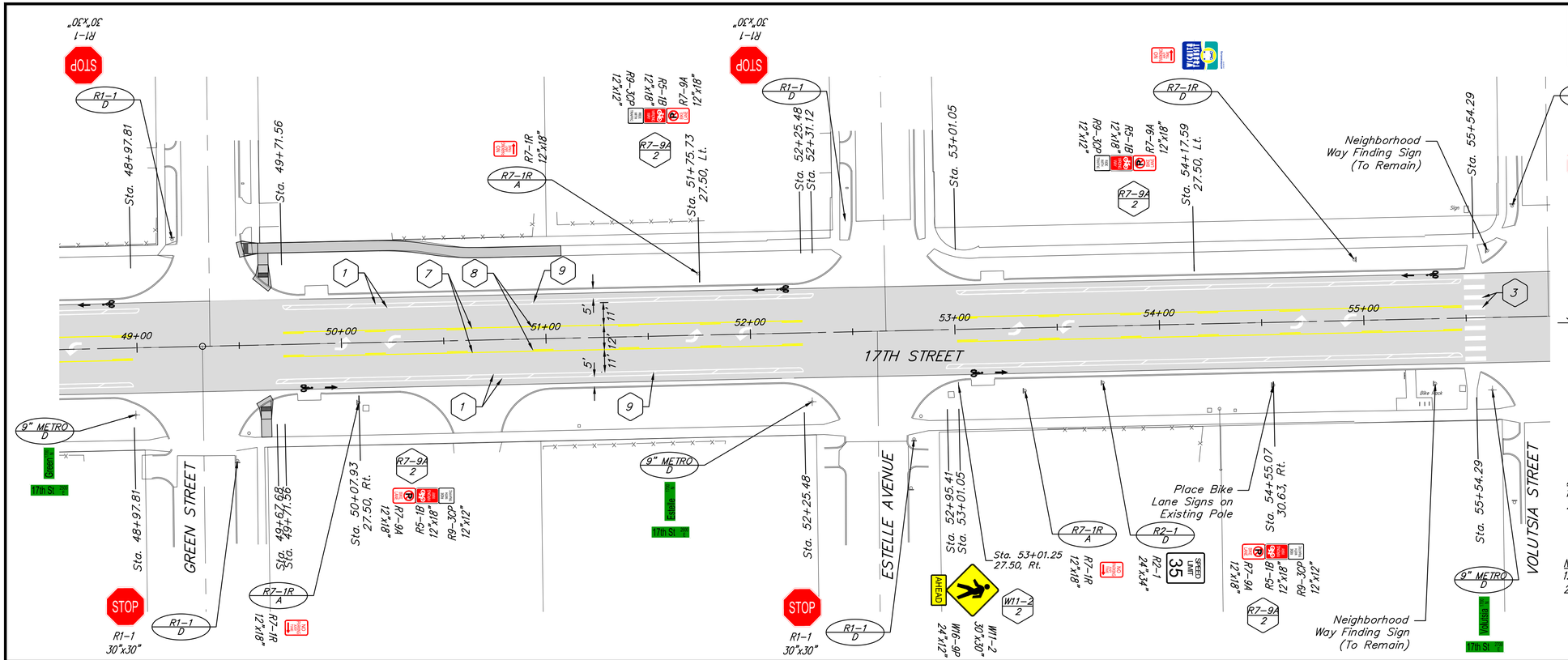
DESIGN: TMS DRAWN: TMS

DATE: August 5, 2025

SHEET 102 OF 148

File: E:\Projects\Wichita 17th St. I-135 to Hillside (23-04-E484)\Engineering\DWG\MARKING & SIGN PLAN.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	103	148



30 0 30

Scale: 1"=30'

SIGN LEGEND:

Proposed Sign

Sign Assembly Number

R1-2 / 1

Denotes General Note No.

Existing Sign

Sign Assembly Number

R1-1 / D

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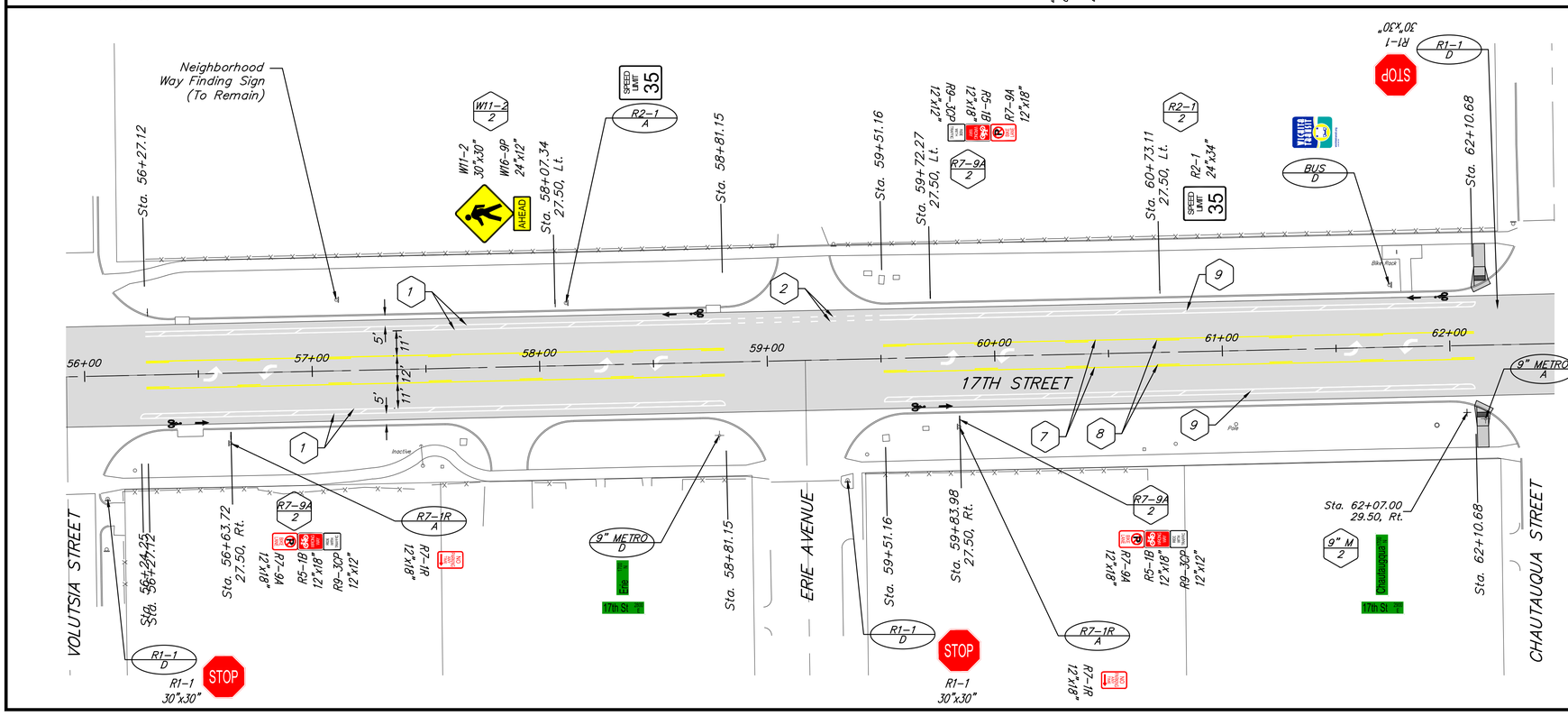

30 0 30

Scale: 1"=30'

MARKING LEGEND:

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BRENT CHESNUT
LICENSED
23419
08/05/2025
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CITY OF WICHITA
17TH STREET

MARKING & SIGN PLAN 5

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

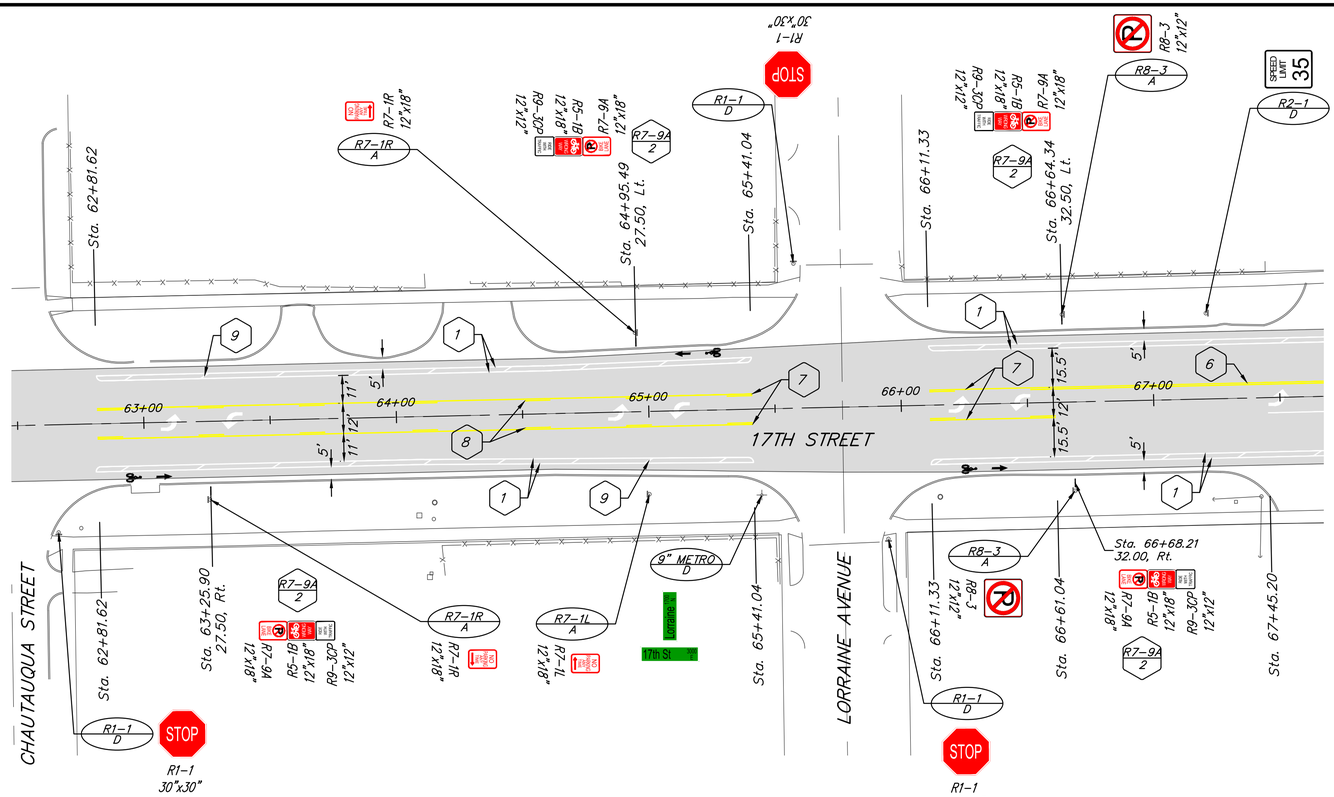
DESIGN: TMS DRAWN: TMS

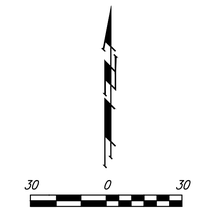
DATE: August 5, 2025

SHEET 103 OF 148

File: E:\Projects\Wichita 17th St. I-135 to Hillside (23-04-E484)\Engineering\DWG\MARKING & SIGN PLAN.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	104	148





SIGN LEGEND:

Proposed Sign

Sign Assembly Number

R1-2 / 1

Denotes General Note No.

Existing Sign

Sign Assembly Number

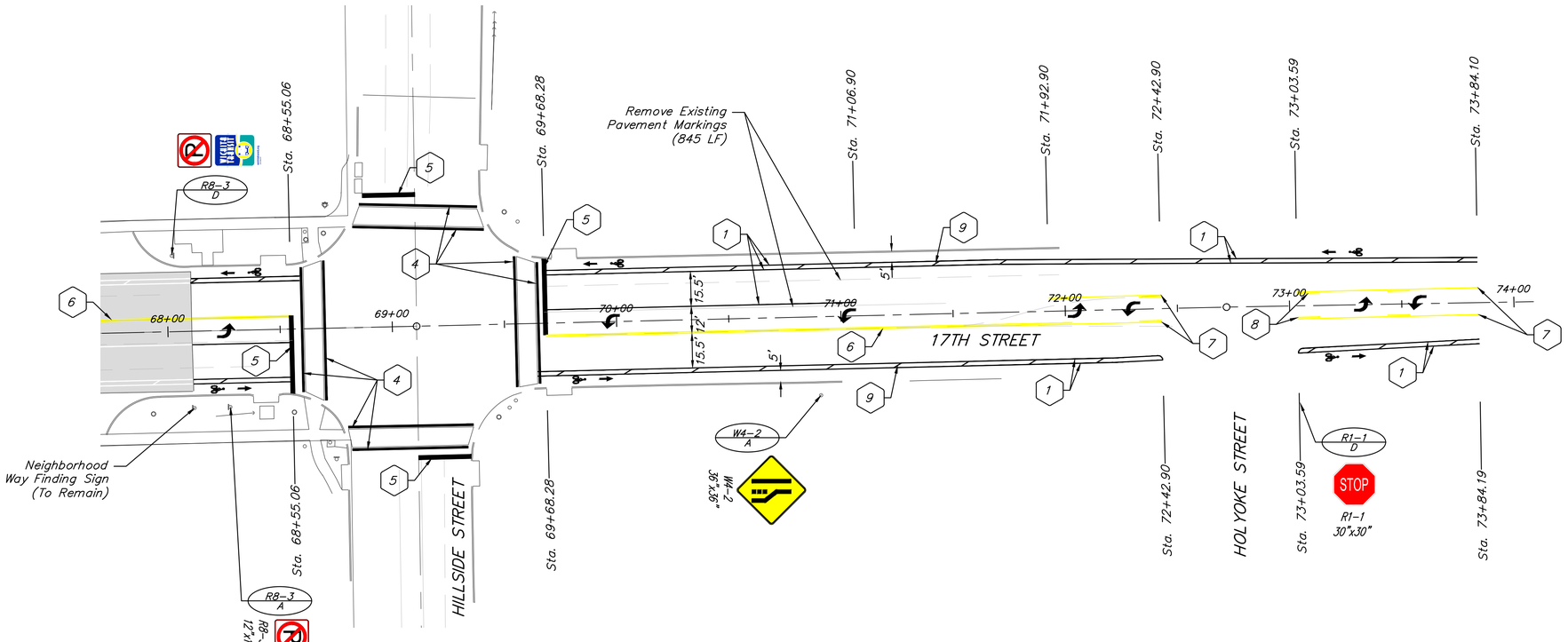
R1-1 / D

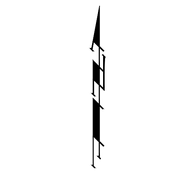
Denotes Action

ACTION
1 – Relocated Signed
2 – New Sign and Post

ACTION
A – Remove & Salvage to Owner
B – Relocate
C – Remove & Dispose
D – Sign to Remain in Place

NOTES
1. Save & Reset Sign on Existing Sign Post
2. Bottom of signs to be installed 7' above ground and set 3' behind curb unless shown otherwise..





MARKING LEGEND:

1. 4" Solid WHITE – Lane Line
2. 4" Dotted WHITE – Lane Line
3. 24" Solid WHITE Crosswalk (10' Length, 5' Spacing Max)
4. 12" Solid WHITE Crosswalk Line
5. 24" Solid WHITE Stop Line
6. 4" Solid YELLOW – Double Center Line
7. 4" Solid YELLOW – Single Center Line
8. 4" Broken YELLOW – Center Line
9. 8" Solid WHITE Diagonal Bike Buffer (30')(20' Spacing)
10. 12" Solid YELLOW Diagonal (30')(20' Spacing)

BRENT CHESNUT LICENSED 23419 08/05/2025 KANSAS PROFESSIONAL ENGINEER

BAUGHMAN COMPANY
315 Ellis St.
Wichita, KS 67211
316-262-7271
BaughmanCo.com

CITY OF WICHITA
17TH STREET

MARKING & SIGN PLAN 6

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

DESIGN: BDC DRAWN: BDC

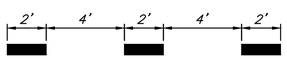
DATE: August 5, 2025

SHEET 104 OF 148

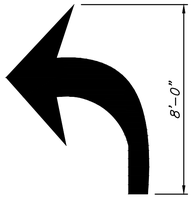
File: E:\Projects\Wichita 17th St. I-135 to Hillside (23-04-E484)\Engineering\DWG\MARKING & SIGN PLAN.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	105	148

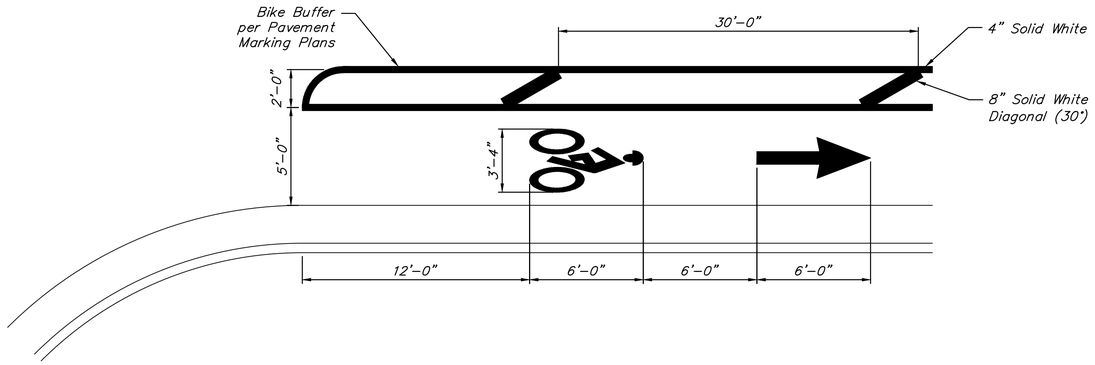
DOUBLE YELLOW CENTERLINE
NOT TO SCALE



4" DOTTED WHITE LANE LINE
NOT TO SCALE



TURN LANE ARROW
NOT TO SCALE

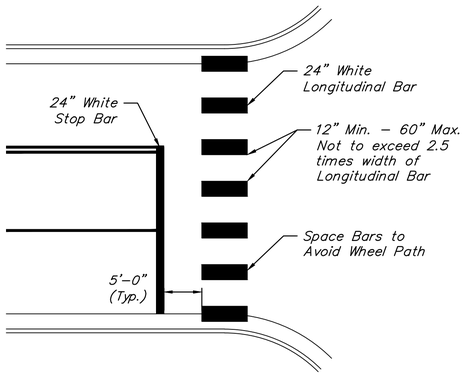


BIKE LANE MARKING (TYP.)
NOT TO SCALE

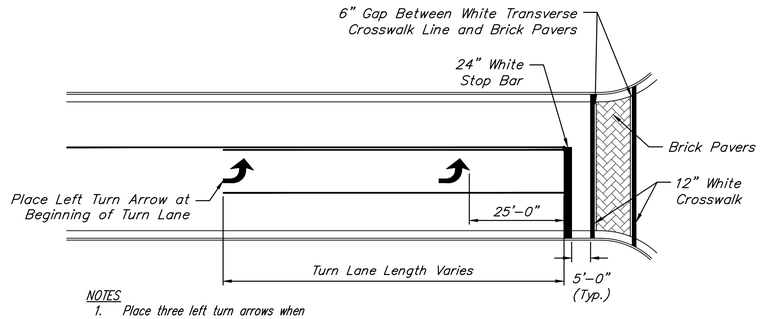
Pavement Markings		
Item	Quantity	Unit
Pavement Marking (White)(24")	542	LF
Pavement Marking (White)(12")	930	LF
Pavement Marking (White)(8")	1,535	LF
Pavement Marking (White)(6")	0	LF
Pavement Marking (White)(4")	23,966	LF
Pavement Marking (Yellow)(8")	660	LF
Pavement Marking (Yellow)(4")	15,218	LF
Pavement Marking Symbol (Left Turn)	86	EA
Pavement Marking Symbol (Bike)	45	EA
Pavement Marking Symbol (Arrow)	45	EA
Pavement Marking Symbol (Sharrow)	0	EA

Bid Items		
Bid Item	Quantity	Unit
Pavement Markings	1	LS

NOTES
1. All pavement markings for asphalt pavement shall be thermoplastic; for concrete shall be epoxy.
2. Pavement markings shall be installed per manufacture's recommendations and in accordance with KDOT's latest edition of Standard Specifications.
3. Full traffic may not be restored (and substantial project completion achieved) until all pavement markings are in place.
4. Should construction timing be such that restoration of traffic becomes necessary during temperatures prohibiting the installation of thermoplastic markings, the contractor shall install and maintain temporary markings until such time that thermoplastic markings may be properly installed.
5. Remove Existing Markings on all pavement that will not be replaced or resurfaced. Removal costs shall be included in bid item 'Pavement Markings'.
6. Except for the material requirement, temporary pavement marking shall be placed equivalent to the permanent marking layout. The cost for temporary pavement marking will not be paid for directly, but shall be considered SUBSIDIARY to the bid item 'Pavement Markings'.

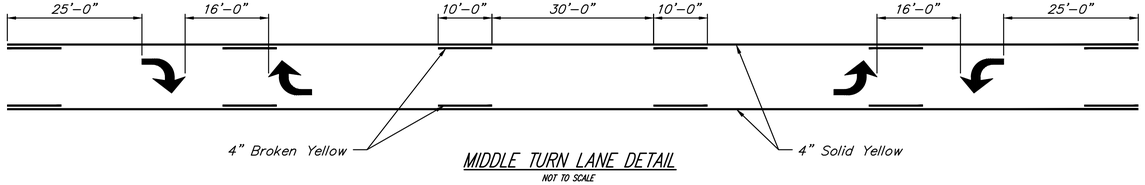


CROSSWALK MARKING (TYPICAL)
NOT TO SCALE

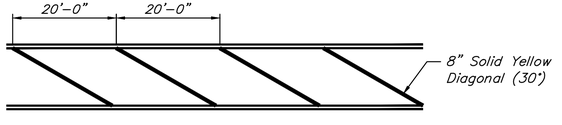


NOTES
1. Place three left turn arrows when Turn Lane Length is 200' or greater.

INTERSECTION MARKING (TYPICAL)
NOT TO SCALE



MIDDLE TURN LANE DETAIL
NOT TO SCALE



TYPICAL DIAGONAL MARKING DETAIL
NOT TO SCALE

BRENT CHESNUT
LICENSED
23419
08/05/2025
KANSAS
PROFESSIONAL ENGINEER

BAUGHMAN COMPANY
315 Ellis St.
Wichita, KS 67211
316-262-7271
BaughmanCo.com

CITY OF WICHITA
17TH STREET

PAVEMENT MARKING DETAILS

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

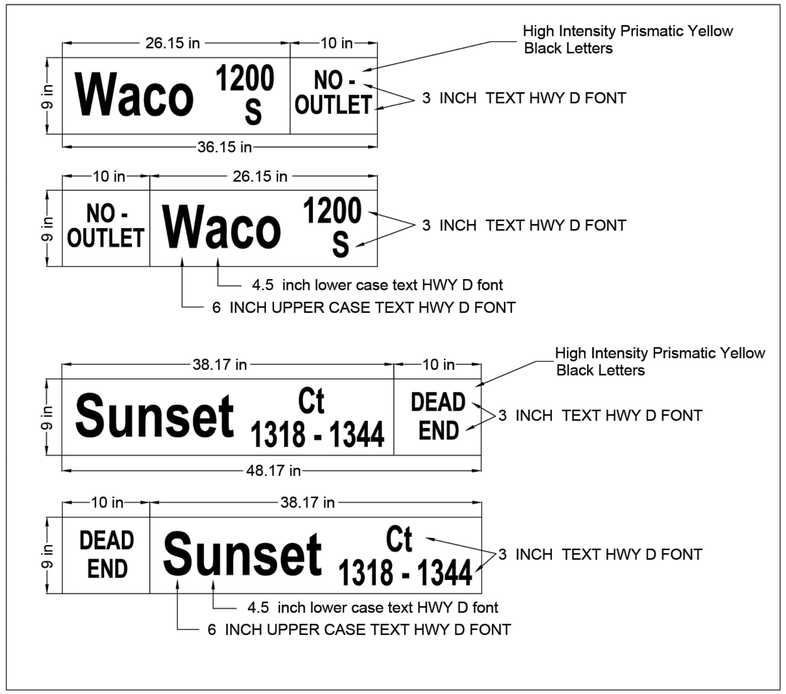
DESIGN: BDC DRAWN: BDC

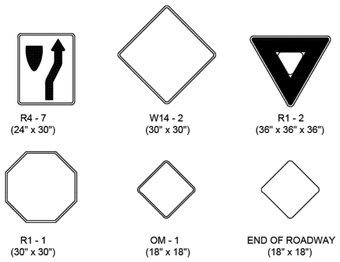
DATE: August 5, 2025

SHEET 105 OF 148

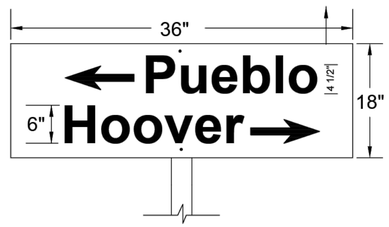
File: E:\Projects\Wichita 17th St. I-135 to Hillside (23-04-E484)\Engineering\DWG\MARKING & SIGN DETAILS.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2024	106	XX

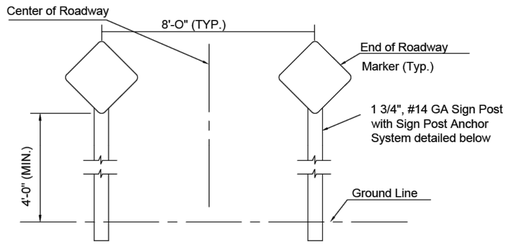




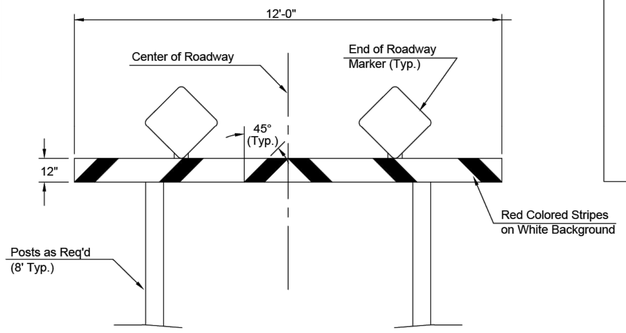
* IN NO CASE SHALL THE SPECIFICATIONS BE LESS THAN REQUIRED BY THE CURRENT MUTCD.



FLAT PLATE STREET NAME SIGN

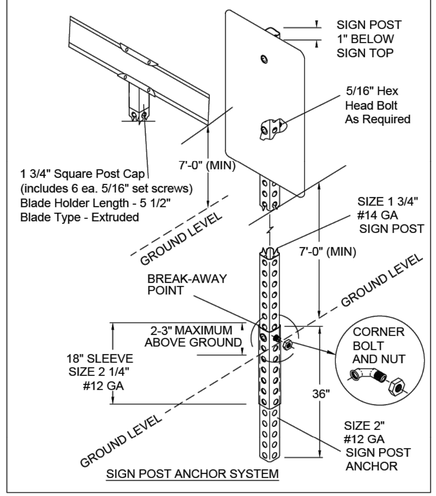


TYPICAL END OF ROADWAY SIGN MOUNTING INSTALLATION



TYPE I BARRICADE DETAIL W/ E.O.R. MARKERS

PERFORATED TUBE SIGN POST INSTALLATION



SIGN POST ANCHOR SYSTEM

NOTE: REFERENCES BELOW TO "STANDARD SPECIFICATIONS" DENOTE "STANDARD SPECIFICATION FOR STATE ROAD AND BRIDGE CONSTRUCTION EDITION 2015" BY THE KANSAS DEPARTMENT OF TRANSPORTATION.

1. ***FABRICATION AND INSTALLATION OF ALL SIGNS SHALL CONFORM TO THE LATEST EDITION OF THE MUTCD.***

1a. POST ANCHORS: POSTS SHALL BE ANCHORED WITH A YIELDING BASE POST SUPPORT AS DETAILED.

2. POSTS FOR TRAFFIC CONTROL SIGNS: POSTS SHALL BE GALVANIZED AND CONFORM TO THE REQUIREMENTS OF SUBSECTION 1620 OF THE STANDARD SPECIFICATIONS, EXCEPT THAT ALL POSTS SHALL WEIGH 3 LBS./FT. MINIMUM.

3. POSTS FOR STREET NAME SIGNS (SNS): POSTS SHALL BE 9 FEET LONG, CONSTRUCTED FROM #14 GALVANIZED STEEL PIPE AND SHALL BE 1 3/4" SQUARE WEIGHING A MINIMUM OF 3 LBS/FT. POSTS SHALL BE POSITIONED SO THAT THE BOTTOM BLADE IS 7 FEET ABOVE GRADE.

4. POSTS FOR END OF ROADWAY SIGN TO BE 8' LONG AND INSTALLED A MINIMUM OF 4' FROM ROADWAY TO BOTTOM OF SIGN.

5. SIGN BLANKS FOR TRAFFIC CONTROL SIGNS: SIGN BLANKS SHALL BE FABRICATED FROM 0.080" ALUMINUM ALLOY 6063-T6 CONFORMING TO THE REQUIREMENTS OF SUBSECTION 1627 OF THE STANDARD SPECIFICATIONS.

6. SIGN BLADES FOR STREET NAME SIGNS: EXTRUDED ALUMINUM BLADES SHALL BE ALUMINUM ALLOY CONFORMING TO 6063-T6 OR 5052-H38 (ASTM SPECIFICATION B221, LATEST ISSUE). BLADES SHALL HAVE AN ALODINE OR PHOSPHATE ETCHED FINISH. BLADES SHALL HAVE SQUARE CORNERS AND NO HOLES.
MINIMUM BLADE LENGTH SHALL BE 24". MAXIMUM BLADE LENGTH SHALL BE 48". LENGTH VARIES BY INCREMENTS OF 6".
BLADES BEARING THE STREET NAMES SHALL BE FIRMLY ATTACHED TO THE MOUNTING BRACKETS USING ALLEN-TYPE CONICAL SET SCREWS. THE BLADES SHALL BE ORIENTED PARALLEL TO THE STREET.

7. MOUNTING BRACKETS FOR SIGNS: DIE-CAST ALUMINUM BRACKETS SHALL BE ALUMINUM ALLOY 360 HAVING A TENSILE STRENGTH OF 44,000 PSI. THE BRACKETS SHALL BE SMOOTHLY FINISHED FREE OF PITS, BURRS, AND FLAWS. EACH BRACKET SHALL BE TAPPED AND DRILLED FOR 5/16" ZINC-PLATED ALLEN-TYPE SET SCREWS HAVING SELF-LOCKING SAW-TOOTH ENDS.

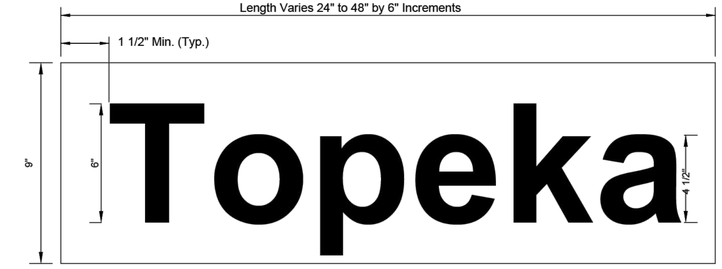
8. FASTENERS: ALL STEEL FASTENERS FOR TRAFFIC CONTROL SIGNS SHALL BE GALVANIZED AND SHALL CONFORM TO THE REQUIREMENTS OF SUBSECTION 1614 OF THE STANDARD SPECIFICATIONS.

9. REFLECTIVE SHEETING: REFLECTIVE SHEETING SHALL BE A MINIMUM OF HIGH INTENSITY PRISMATIC.

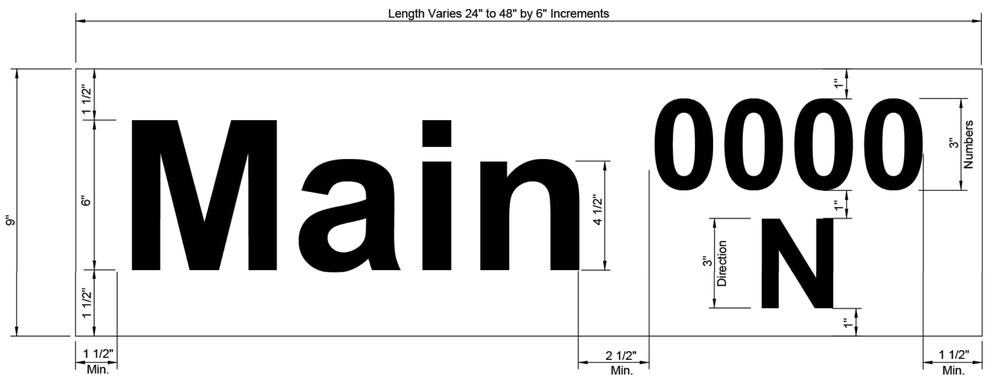
10. PROCESS INK: ALL PROCESS INK SHALL CONFORM TO THE REQUIREMENTS OF SUBSECTION 2202 OF THE STANDARD SPECIFICATIONS.

11. DETAILS - SNS: THE REFLECTIVE SHEETING FOR THE 9" STANDARD SIZE SNS IS TO BE THE HIGHWAY GREEN BACKGOUND WITH SILVER-WHITE #2 COPY WITH 6" UPPER CASE AND 4 1/2" LOWER CASE PRIMARY COPY AND SUFFIX COPY. BOTH SERIES "C". FACES TO TRIM TO A 8 1/2". (SEE DETAIL A.)
THE REFLECTIVE SHEETING FOR THE 9" METRO SIZE SNS IS TO BE THE HIGHWAY GREEN BACKGROUND WITH SILVERWHITE #2 COPY WITH 6" UPPER CASE AND 4 1/2" LOWER CASE PRIMARY COPY AND SUFFIX COPY, BOTH SERIES "C". THE CARDINAL DIRECTION CENTERED DIRECTLY BELOW THE BLOCK NUMBER SHALL BE AN UPPER CASE, 3" SERIES "C" LETTER. FACES TO TRIM TO A 8 1/2" WIDTH. (SEE DETAIL B.)
FOR CUL-DE-SAC STREETS, A 9" METRO SIZE BLADE SHALL BE USED WITH THE BLOCK NUMBERS DISPLAYED BENEATH THE STREET NAME. IF BLOCK NUMBERS ARE NOT SHOWN ON THE PLANS THE CONTRACTOR SHALL CONTACT THE TRAFFIC ENGINEER AT 268-4501 PRIOR TO MANUFACTURING THE SIGN.
SHOP DRAWINGS OF LAYOUT FOR SNS SHALL BE SUBMITTED TO THE TRAFFIC ENGINEERING DIVISION OF THE CITY OF WICHITA FOR APPROVAL PRIOR TO FABRICATION. THE FINISHED SIGNS AS SUPPLIED SHALL BE OF GOOD APPEARANCE, FREE FROM RAGGED EDGES, CRACKS SCALES OR BLISTERS AND SHALL BE CLEAN-CUT. SIGNS SHALL BE PACKED IN SUCH MANNER AS TO PREVENT DAMAGE OR DEFACEMENT DURING SHIPMENT OR STORAGE.

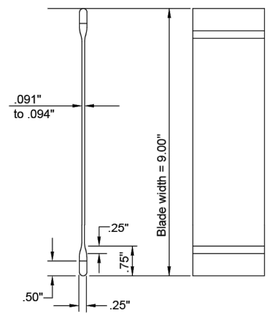
12. PERMANENT TRAFFIC CONTROL AND SNS: PERMANENT TRAFFIC CONTROL AND SNS SHALL BE MEASURED AND PAID FOR AT THE LUMP SUM PRICE FOR SIGNING. THE PAYMENT AS SET FORTH ABOVE SHALL BE CONSIDERED FULL COMPENSATION FOR ALL EXCAVATION, BACKFILLING. POSTS, ANCHORS, FASTENERS, MATERIALS, LABOR, TOOLS AND INCIDENTALS NECESSARY TO COMPLETE THIS WORK.



DETAIL A
9" STANDARD



DETAIL B
9" METRO



STREET NAME SIGN
BLADE DETAILS

CITY OF WICHITA
PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

SIGN DETAILS

TRAFFIC ENGINEER APP'D 01/27/22
MIKE ARMOUR, P.E.

PROJECT NUMBER	ORG NUMBER	DATE
472-2023-085860 23-04-E484	40107823	8/5/25

CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

SHEET 106

TR-112

NO.	DATE	REVISIONS	BY	APP'D
3				
2				
1				

E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\MARKING & SIGN DETAILS.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	107	148

Sign Assembly Table				
Station	Offset	Sign	Quantity	Remarks
4+01.90	27.50 Lt	R7–9A, R5–1B, R9–3CP	1	
5+18.21	27.50 Rt.	R7–9A, R5–1B, R9–3CP	1	
6+24.35	36.00 Lt.	R1–1	1	
6+62.11	40.48 Rt.	R1–1	1	
6+94.63	31.50 Lt.	W12–2	1	
9+67.98	32.50 Lt	R7–9A, R5–1B, R9–3CP	1	
9+68.20	27.50 Rt	R7–9A, R5–1B, R9–3CP	1	
12+02.44	27.50 Rt	W11–2, W16–9P	1	
12+55.23	32.50 Lt.	R2–1	1	
13+19.01	50.00 Rt.	R1–1	1	
13+99.16	32.50 Lt.	R7–9A, R5–1B, R9–3CP	1	
14+21.88	CL	R4–7, OM1–3	1	
14+72.41	32.50 Lt.	W11–2, W16–7PL	1	
14+78.31	31.00 Rt.	W11–2, W16–7PL	1	
14+84.88	CL	R4–7, OM1–3	1	
16+02.36	51.00 Lt.	R1–1	1	
16+38.61	50.00 Rt.	R1–1	1	
16+85.51	27.50 Rt.	R2–1	1	
16+91.79	27.50 Lt.	W11–2, W16–9P	1	
17+50.06	27.50 Lt.	R7–9A, R5–1B, R9–3CP	1	
17+50.06	27.50 Rt.	R7–9A, R5–1B, R9–3CP	1	
18+28.44	51.00 Lt.	R1–1	1	
18+58.47	51.50 Rt.	R1–1	1	
20+60.62	27.50 Rt.	R7–9A, R5–1B, R9–3CP	1	
20+60.64	27.50 Lt	R7–9A, R5–1B, R9–3CP	1	
21+98.89	51.00 Lt.	R1–1	1	
22+29.01	54.00 Rt.	R1–1	1	
24+34.09	27.50 Rt	R7–9A, R5–1B, R9–3CP	1	
24+34.11	27.50 Lt	R7–9A, R5–1B, R9–3CP	1	
25+68.53	51.00 Lt.	R1–1	1	
25+98.61	54.00 Rt.	R1–1	1	
27+91.79	27.50 Rt	R7–9A, R5–1B, R9–3CP	1	
27+91.81	27.50 Lt	R7–9A, R5–1B, R9–3CP	1	
29+27.32	51.00 Lt.	R1–1	1	
29+64.12	54.00 Rt.	R1–1	1	
30+90.03	27.50 Rt	R7–9A, R5–1B, R9–3CP	1	
30+90.06	27.50 Lt	R7–9A, R5–1B, R9–3CP	1	
32+59.35	51.00 Lt.	R1–1	1	
32+95.94	54.00 Rt.	R1–1	1	
34+29.42	27.50 Rt	R7–9A, R5–1B, R9–3CP	1	
34+29.44	27.50 Lt	R7–9A, R5–1B, R9–3CP	1	
35+90.57	51.00 Lt.	R1–1	1	
36+27.12	54.00 Rt.	R1–1	1	
37+79.52	27.50 Lt	R7–9A, R5–1B, R9–3CP	1	
38+08.92	27.50 Rt	R7–9A, R5–1B, R9–3CP	1	
39+21.59	54.00 Lt.	R1–1	1	
39+57.98	54.00 Rt.	R1–1	1	
40+72.58	27.50 Lt.	R2–1	1	
41+21.45	27.50 Rt	R7–9A, R5–1B, R9–3CP	1	
41+45.97	27.50 Lt	R7–9A, R5–1B, R9–3CP	1	
44+21.80	27.50 Lt	R7–9A, R5–1B, R9–3CP	1	
47+70.56	27.50 Rt	R7–9A, R5–1B, R9–3CP	1	
48+46.08	27.50 Lt	R7–9A, R5–1B, R9–3CP	1	
50+07.93	27.50 Rt	R7–9A, R5–1B, R9–3CP	1	
51+75.73	27.50 Lt	R7–9A, R5–1B, R9–3CP	1	
53+01.25	27.50 Rt	W11–2, W16–9P	1	
54+17.59	27.50 Lt	R7–9A, R5–1B, R9–3CP	1	
54+55.07	30.63 Rt	R7–9A, R5–1B, R9–3CP	1	Place on Existing Pole
56+63.72	27.50 Rt	R7–9A, R5–1B, R9–3CP	1	
58+07.34	27.50 Lt	W11–2, W16–9P	1	
59+72.27	27.50 Lt	R7–9A, R5–1B, R9–3CP	1	
59+83.98	27.50 Rt	R7–9A, R5–1B, R9–3CP	1	
60+73.11	27.50 Lt.	R2–1	1	
63+25.90	27.50 Rt	R7–9A, R5–1B, R9–3CP	1	
64+95.79	27.50 Lt	R7–9A, R5–1B, R9–3CP	1	
66+64.34	32.50 Lt	R7–9A, R5–1B, R9–3CP	1	
66+68.21	32.00 Rt	R7–9A, R5–1B, R9–3CP	1	
		Total	67	

Street Name	NO. Blades Req'd	
	9" STD.	9" Metro
17th St.		11
Mathewson St		1
Pennsylvania Avenue		1
Hydraulic Avenue		1
Kansas Avenue		1
Minneapolis Street		1
Minnesota Street		1
Piatt Street		1
Ash Street		1
Madison Avenue		1
Spruce Street		1
Chautauqua Street		1
TOTALS		22

Bid Items		
Bid Item	Quantity	Unit
Signing	1	LS

BAUGHMAN COMPANY
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CITY OF WICHITA
17TH STREET

SIGNING QUANTITIES

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

DESIGN: BDC DRAWN: BDC

DATE: August 5, 2025

SHEET 107 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\MARKING & SIGN DETAILS.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	108	148

Phase	Major Construction Items	Handling of Traffic	Remarks
1	Relocate fire hydrants and water meters. Waterline crossing 17th at Mathewson to be open trenched one–half at a time to maintain traffic. All other waterlines installed via trenchless methods	Maintain two–way traffic on 17th Street at all times during construction. Install temporary asphalt pavement as indicated in the waterline plans at Mathewson and only if necessary to cover trenches at other locations.	
2	Construct north half of 17th Street Improvements from I–135 through Grove. Including stormwater structures along existing trunk line and north half of storm pipes.	Maintain ONE–WAY, EAST BOUND traffic on 17th Street at all times during this phase. Maintain access to the north at all times during construction for private drives and entrances without alternative access, including Mathewson Street.	Limited access across 17th Street at minor intersections shall be controlled by closing no more than every other side street at any one time.
3	Construct south half of 17th from I–135 through Grove. Including south half of storm pipes.	Maintain two–way traffic on 17th Street at all times during this phase. Maintain access to the south at all times during construction for private drives and entrances without alternative access.	Limited access across 17th Street at minor intersections shall be controlled by closing no more than every other side street at any one time.
4	Complete Surface Treatment from Grove to Hillside.	Maintain two–way traffic on 17th Street at all times during surface treatment. Contractor to utilize lane closures through this phase as necessary to match construction process and schedule.	

GENERAL NOTES:

1. The Contractor shall be responsible for all traffic control measures necessary to facilitate construction.
2. All construction zone markings and signage must comply with the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD), as published by the U.S. Department of Transportation, Federal Highway Administration.
3. All costs associated with construction markings and signage shall be included in the Lump Sum Bid Item 'Traffic Control.'
4. The sequencing provided is intended as a guide for major construction activities only. The Contractor is responsible for coordinating all minor work items.
5. Portions of work designated for a specific phase may be completed in other phases, but any major work outside the indicated stage must receive prior approval from the Owner.
6. The minimum lane width shall be 11 feet (measured between the centerline of pavement markings or channelizers), unless otherwise specified in the plans or directed by the Owner. A lane width of less than 11 feet may require restricted roadway width signage.
7. Existing signposts outside the identified construction limits shall not be disturbed.
8. When pedestrian sidewalks are located within the Contractor's work zone, the Contractor shall erect Sidewalk Closed and Sidewalk Closed Ahead signs on Type II barricades. These signs and barricades shall be considered SUBSIDIARY to the Bid Item 'Traffic Control.'
9. Any additional signs, barricades, or other traffic control devices not shown on the Traffic Control Plans but requested by the Owner during construction shall not be paid for directly and will be considered SUBSIDIARY to the contract lump sum price bid for 'Traffic Control.'
10. The Contractor shall maintain access to all properties throughout the construction period.
11. The Contractor must provide all–weather access drives to all properties adjacent to the project.
12. All costs associated with maintaining and providing access shall be included in the contract lump sum price bid for 'Traffic Control.'
13. Traffic Control Plan shows closures at each intersection for general purposes. Contractor shall not be allowed to close two consecutive intersections at a single time. Intended to allow access across 17th Street throughout construction for local traffic and emergency vehicles without the need for additional coordination or signed detours.

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17TH STREET

CONST. SEQUENCING PLAN

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

DESIGN: BDC DRAWN: BDC

DATE: August 5, 2025

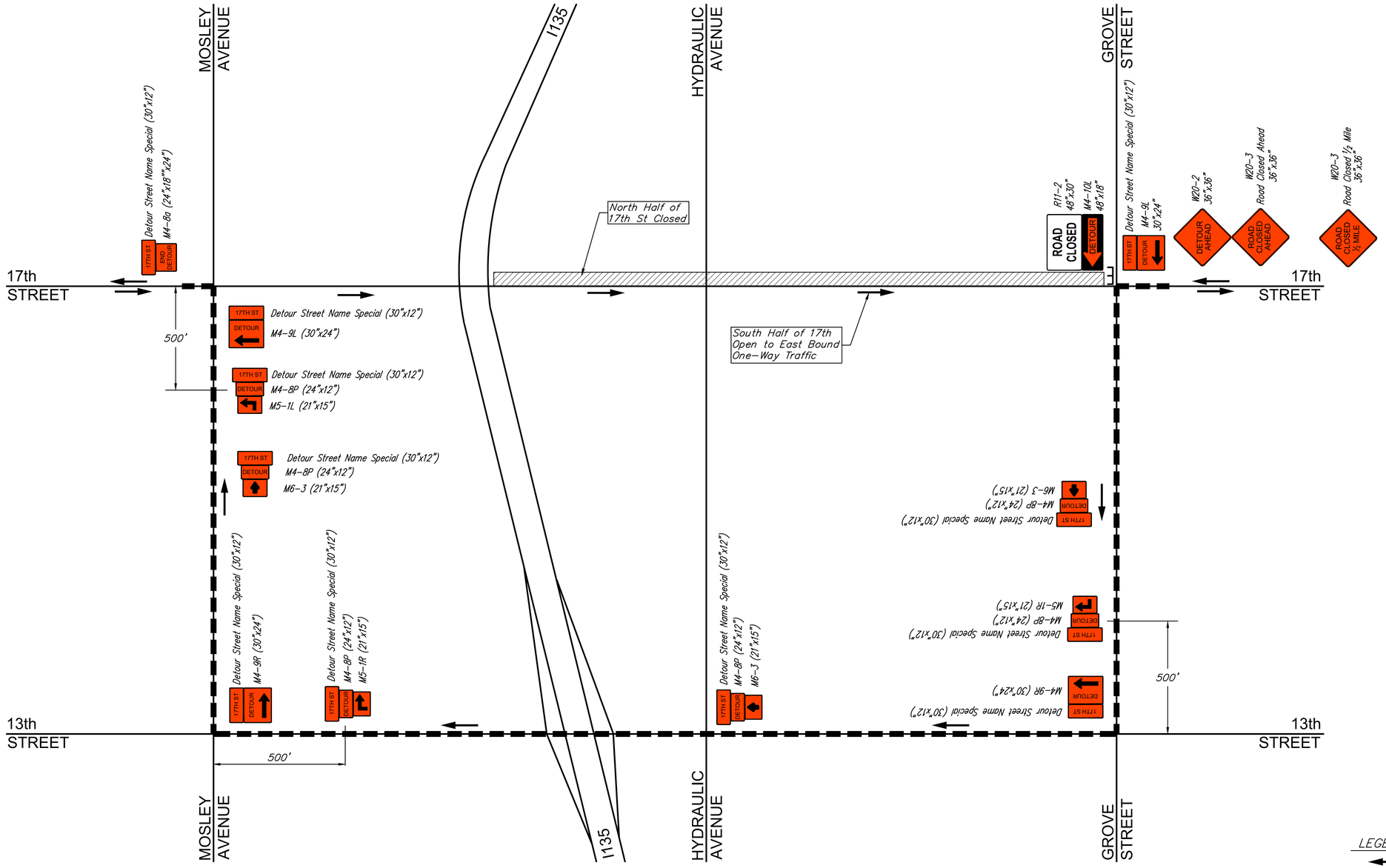
SHEET 108 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\TC PLAN AND DETAILS.dwg

GENERAL NOTES:

1. Refer to Phase II Traffic Control Sheets 110–112 for detailed traffic control plan within the Work Zone.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	109	148



Not to Scale

TEMPORARY TRAFFIC CONTROL
PHASE II DETOUR PLAN

LEGEND:

- Direction of Traffic Flow
- Channelizing Device
- Type 3 Barricade
- Pedestrian Channelizer
- Temp Traffic Sign
- Work Zone

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17TH STREET

DETOUR PLAN PHASE 2

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

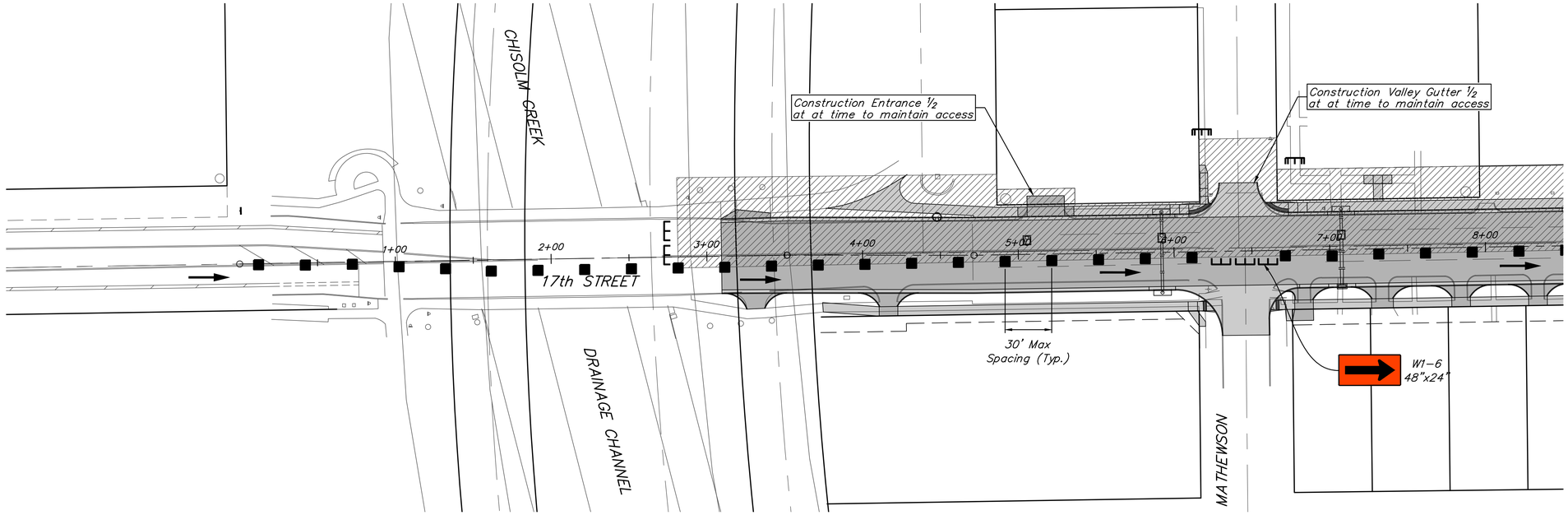
DESIGN: BDC DRAWN: BDC

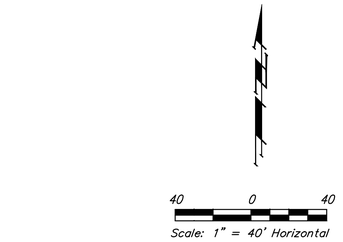
DATE: August 5, 2025

SHEET 109 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\TC PLAN AND DETAILS.dwg

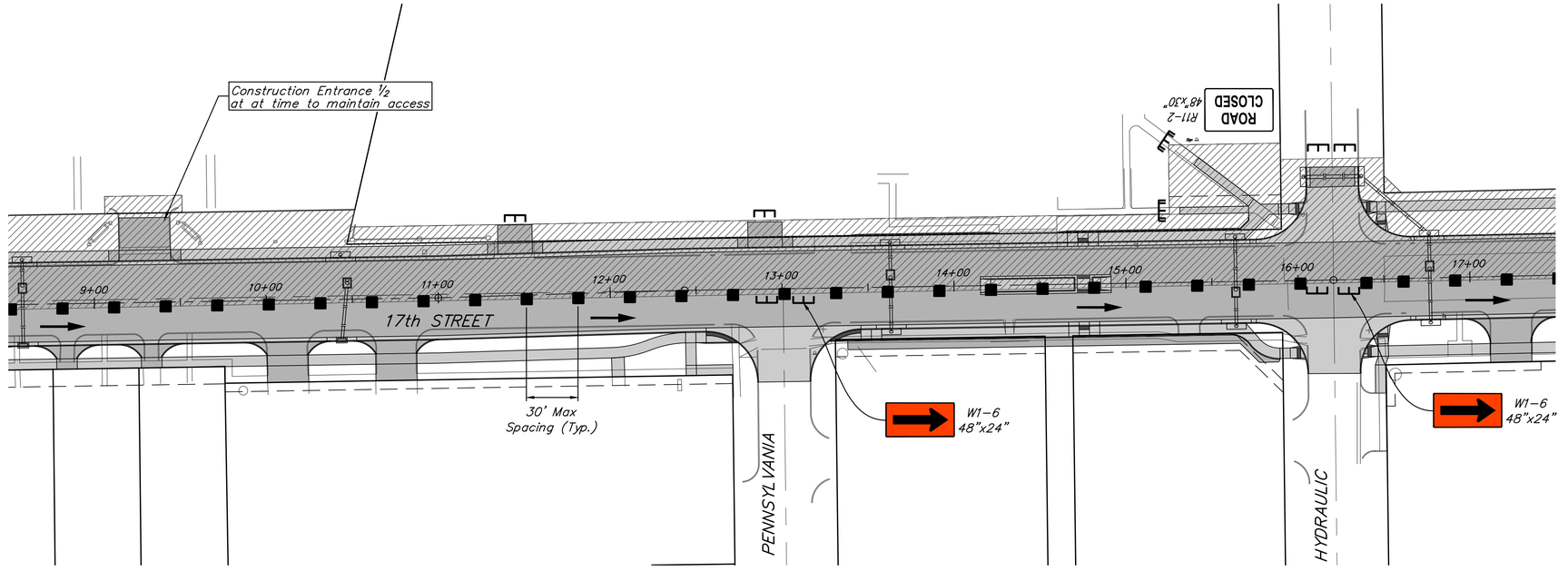
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	110	148

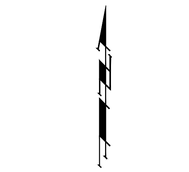




LEGEND:

- Direction of Traffic Flow
- Channelizing Device
- Type 3 Barricade
- Pedestrian Channelizer
- Temp Traffic Sign
- Work Zone





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17TH STREET

TRAFFIC CONTROL PLAN PHASE 2

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

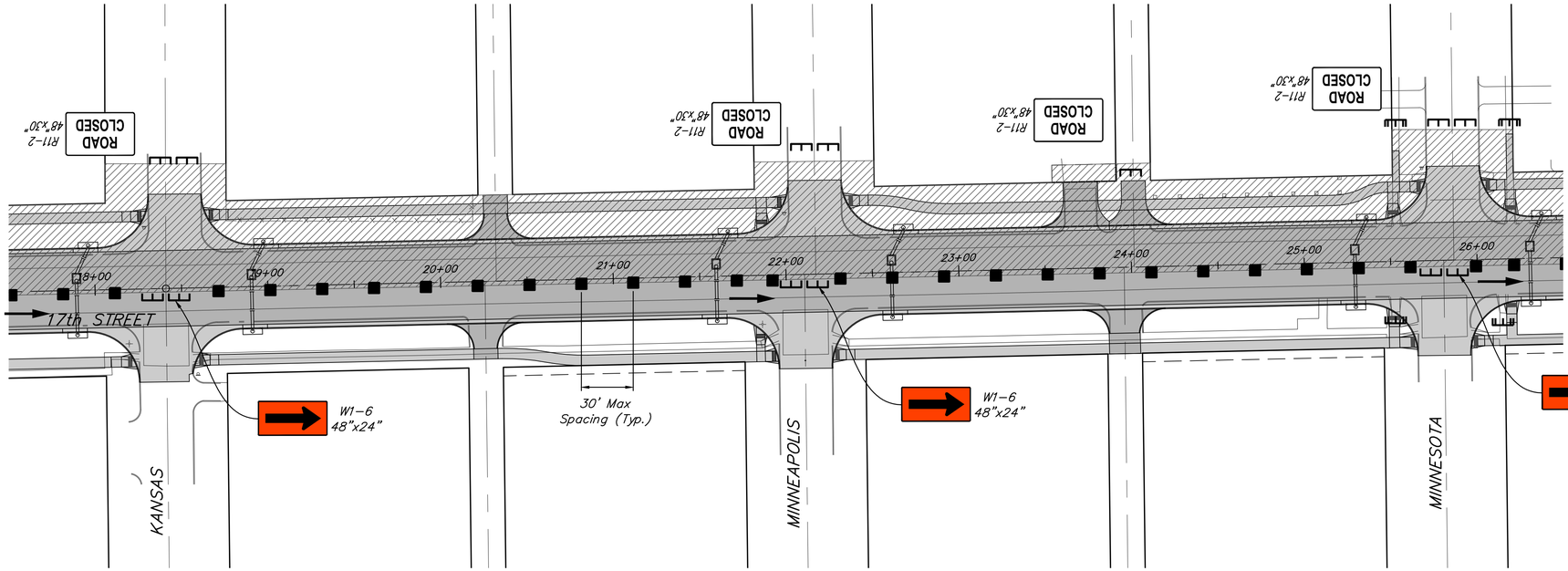
DESIGN: BDC DRAWN: BDC

DATE: August 5, 2025

SHEET 110 OF 148

File: E:\Projects\Wichita 17th St. I-135 to Hillside (23-04-E484)\Engineering\DWG\TC PLAN AND DETAILS.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	111	148



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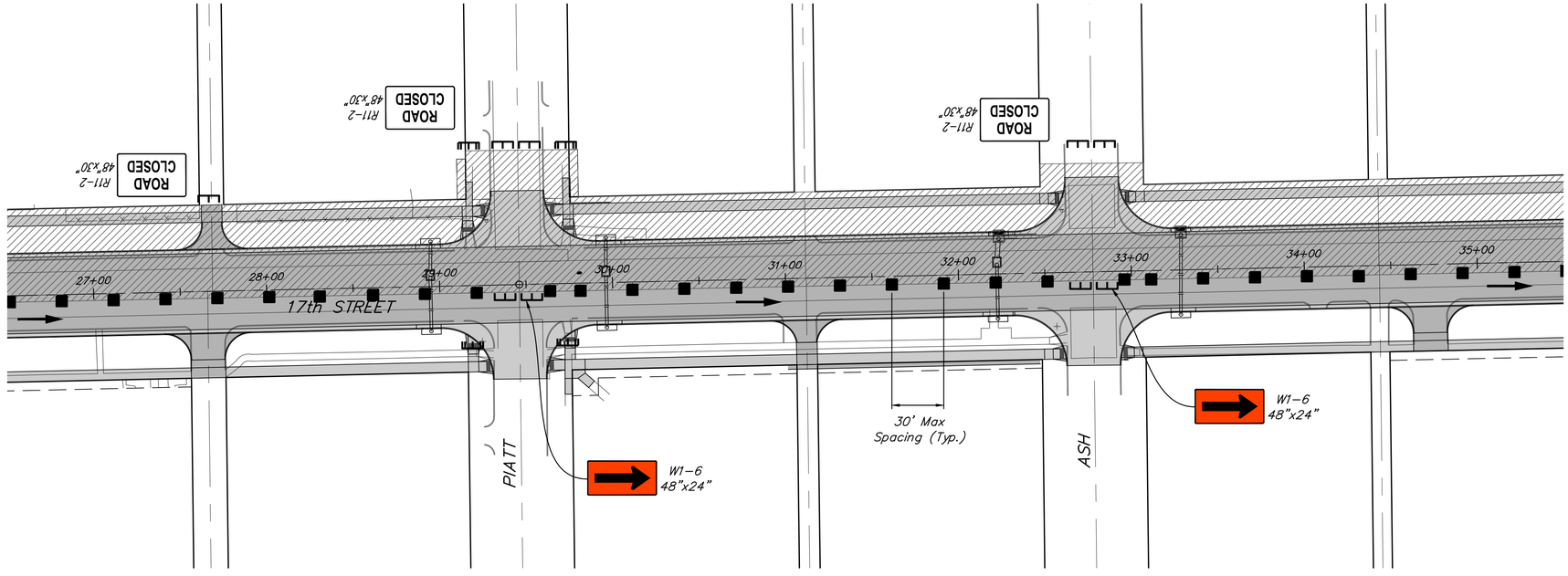
LEGEND:

- Direction of Traffic Flow
- Channelizing Device
- Type 3 Barricade
- Pedestrian Channelizer
- Temp Traffic Sign
- Work Zone



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Scale: 1" = 40' Horizontal

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CITY OF WICHITA
17TH STREET

TRAFFIC CONTROL PLAN PHASE 2

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

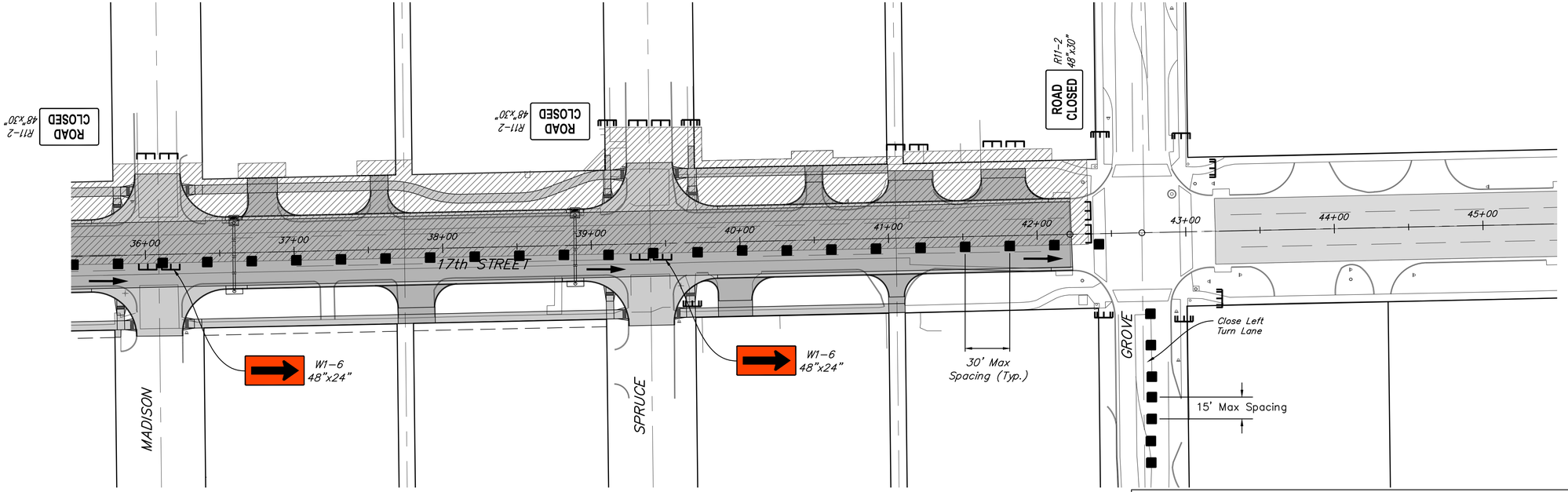
DESIGN: BDC DRAWN: BDC

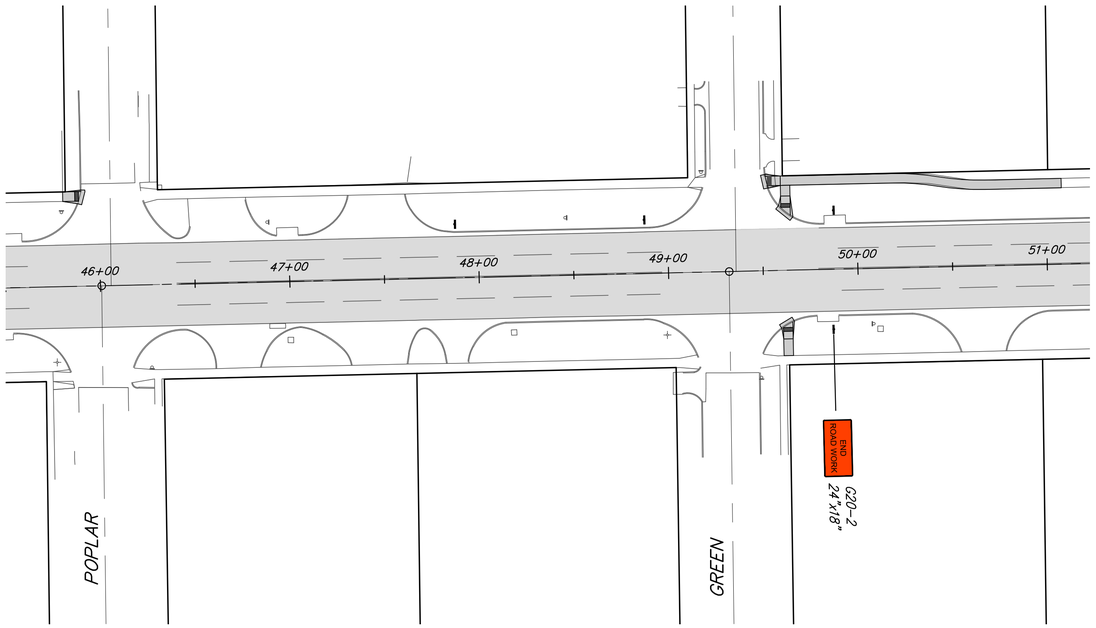
DATE: August 5, 2025

SHEET 111 OF 148

File: E:\Projects\Wichita 17th St. I-135 to Hillside (23-04-E484)\Engineering\DWG\TC PLAN AND DETAILS.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	112	148





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Scale: 1" = 40' Horizontal

LEGEND:

- Direction of Traffic Flow
- Channelizing Device
- Type 3 Barricade
- Pedestrian Channelizer
- Temp Traffic Sign
- Work Zone

*Temporary Traffic Control – Phase 2

Item	Quantity	Unit
Channelizing Device	147	EA
Type 3 Barricade	39	EA
Pedestrian Channelizer	19	EA
Traffic Sign (Road Closed)(R11-2)	11	EA
Traffic Sign (Arrow)(W1-6)	8	EA
Traffic Sign (Detour Street Name Special)	11	EA
Traffic Sign (Detour End)(M4-8a)	1	EA
Traffic Sign (Detour)(M4-8P)	6	EA
Traffic Sign (Detour)(M4-9L)	2	EA
Traffic Sign (Detour)(M4-9R)	2	EA
Traffic Sign (Detour)(M4-10L)	1	EA
Traffic Sign (Direction Arrow)(M5-1R)	2	EA
Traffic Sign (Direction Arrow)(M5-1L)	1	EA
Traffic Sign (Direction Arrow)(M6-3)	3	EA
Traffic Sign (Detour Ahead)(W20-2)	1	EA
Traffic Sign (Road Closed Ahead)(W20-3)	1	EA
Traffic Sign (Road Closed Ahead)(W20-3)	1	EA
Traffic Sign (End Road Work)(G20-2)	1	EA

*NOTES

1. Temporary Traffic Control items provided for Information Only. To be Bid as one Lump Sum Item.
2. Quantities provided for entire Phase. Actual amount will vary depending on Contractors operations within this Phase.

Bid Items		
Bid Item	Quantity	Unit
Traffic Control	1	LS

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17TH STREET

TRAFFIC CONTROL PLAN PHASE 2

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

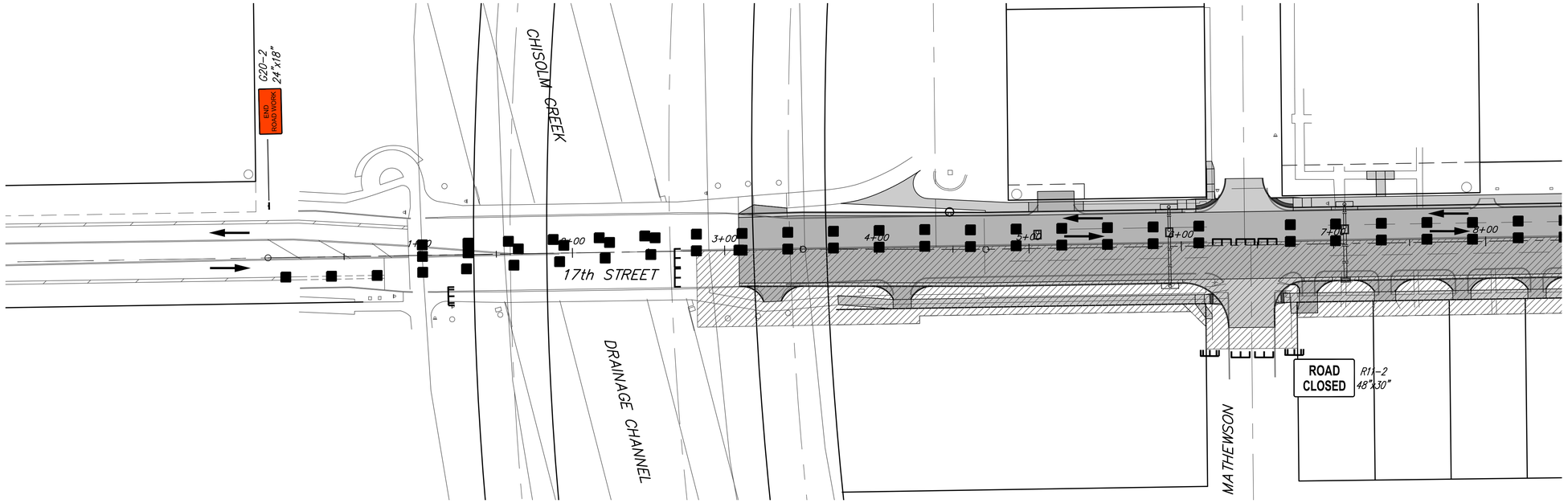
DESIGN: BDC DRAWN: BDC

DATE: August 5, 2025

SHEET 112 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\TC PLAN AND DETAILS.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	113	148



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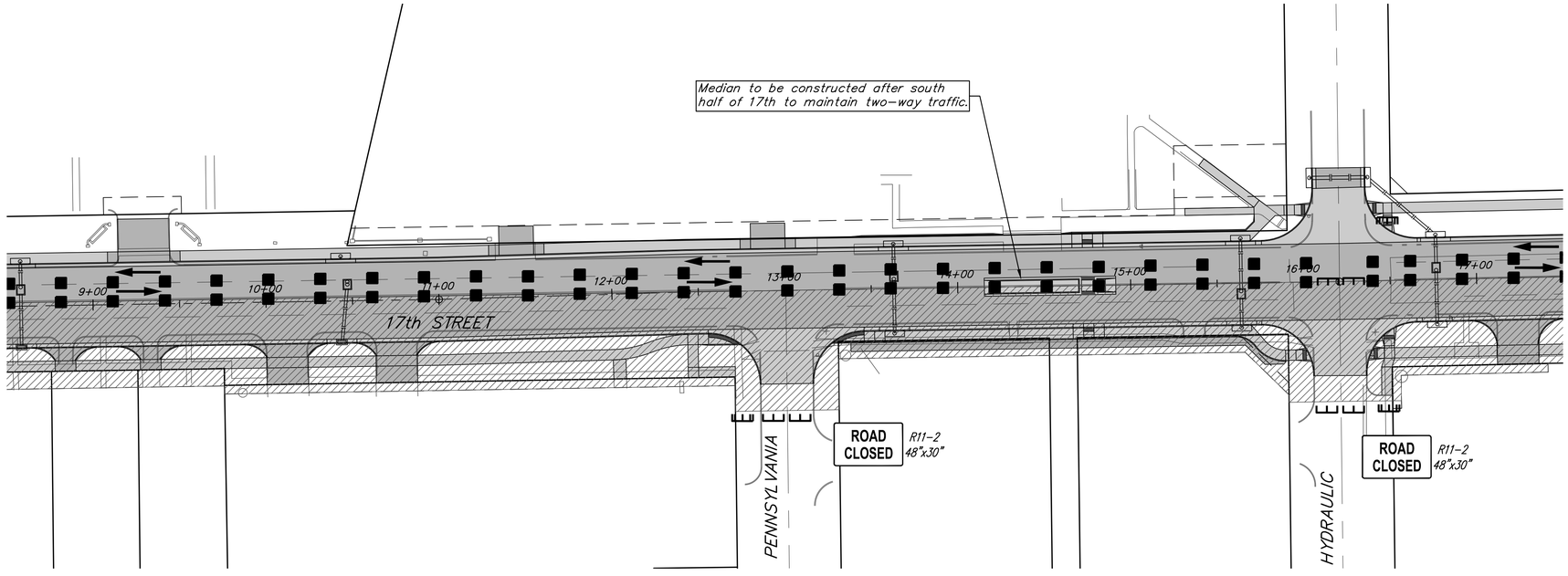
Scale: 1" = 40' Horizontal

LEGEND:

- Direction of Traffic Flow
- Channelizing Device
- Type 3 Barricade
- Pedestrian Channelizer
- Temp Traffic Sign
- Work Zone



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Scale: 1" = 40' Horizontal

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CITY OF WICHITA
17TH STREET

TRAFFIC CONTROL PLAN PHASE 3

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

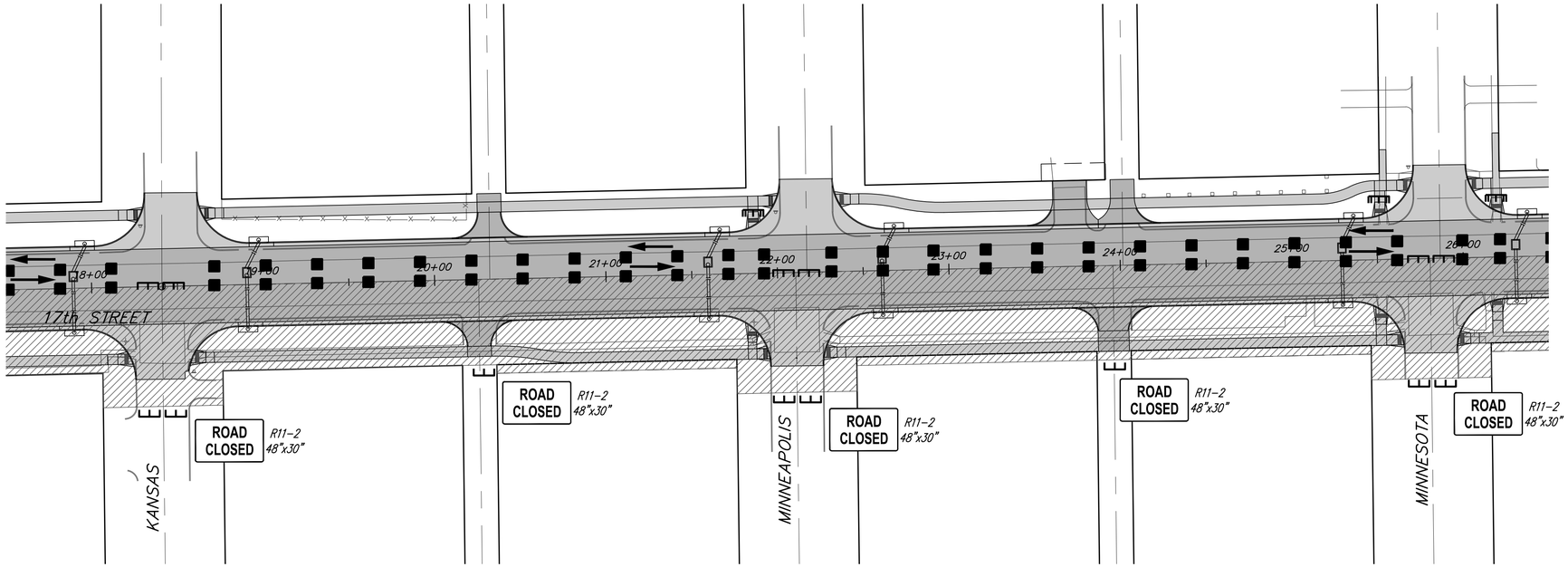
DESIGN: BDC DRAWN: BDC

DATE: August 5, 2025

SHEET 113 OF 148

File: E:\Projects\Wichita 17th St. I-135 to Hillside (23-04-E484)\Engineering\DWG\TC PLAN AND DETAILS.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	114	148



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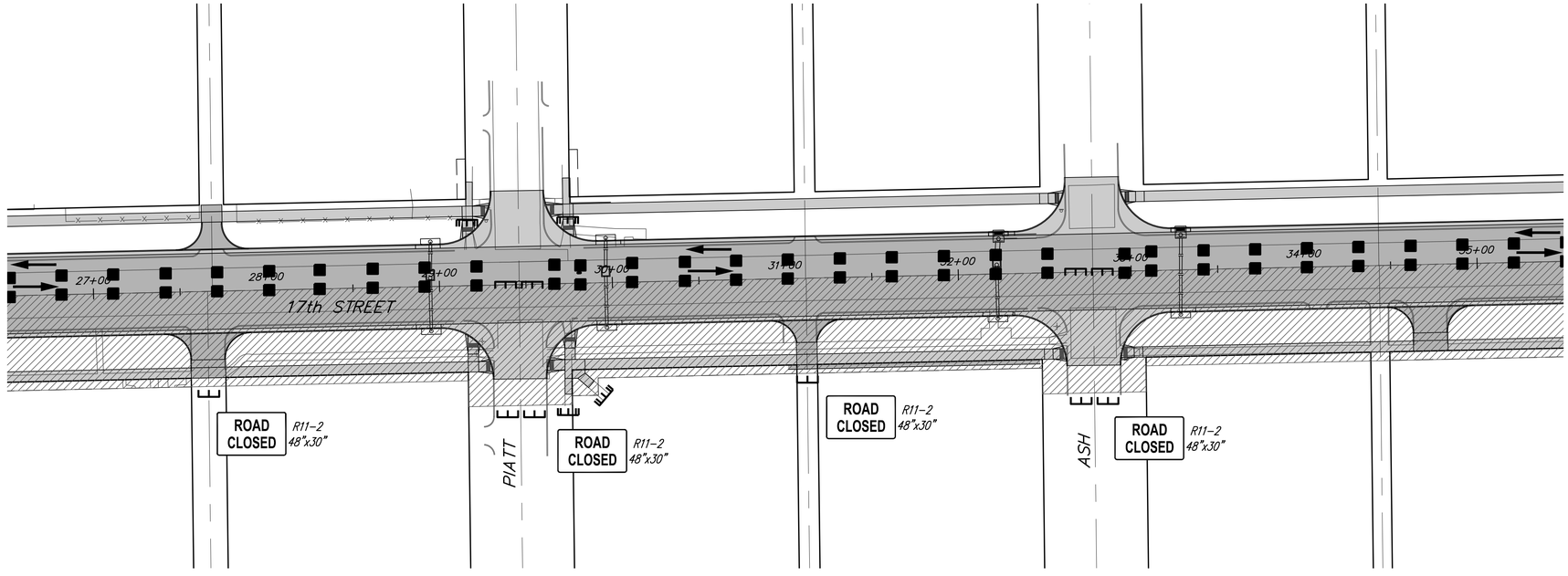
Scale: 1" = 40' Horizontal

LEGEND:

- Direction of Traffic Flow
- Channelizing Device
- Type 3 Barricade
- Pedestrian Channelizer
- Temp Traffic Sign
- Work Zone



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Scale: 1" = 40' Horizontal

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TRAFFIC CONTROL PLAN PHASE 3

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

DESIGN: BDC DRAWN: BDC

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SHEET 114 OF 148

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STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
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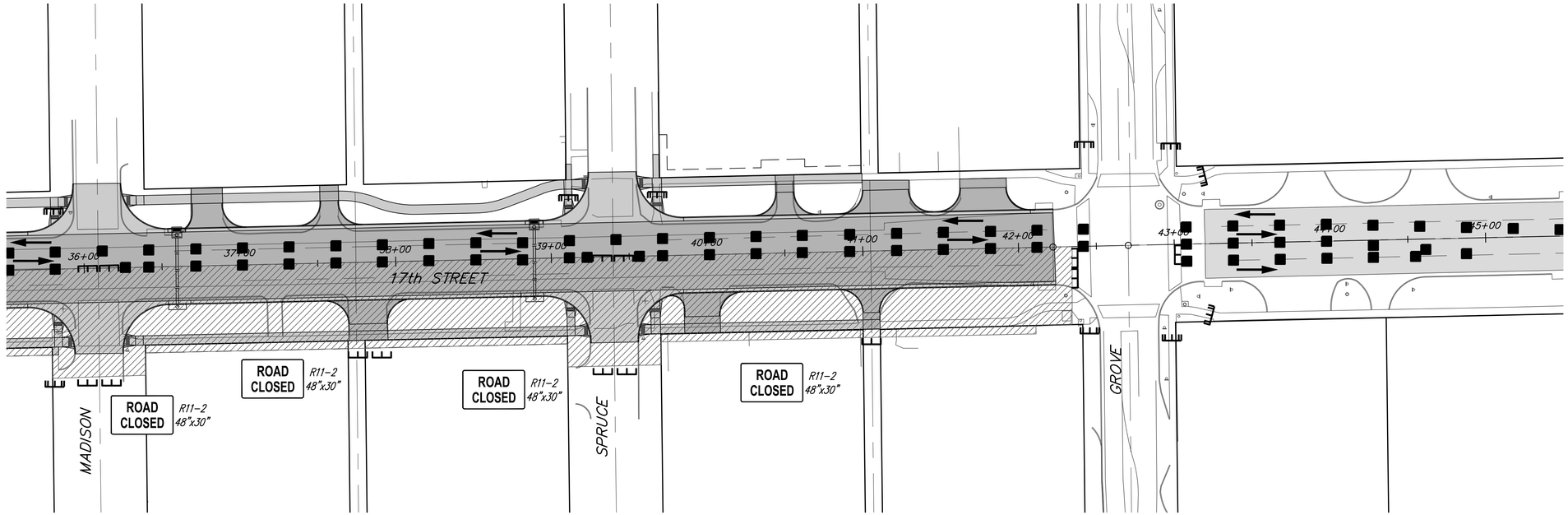

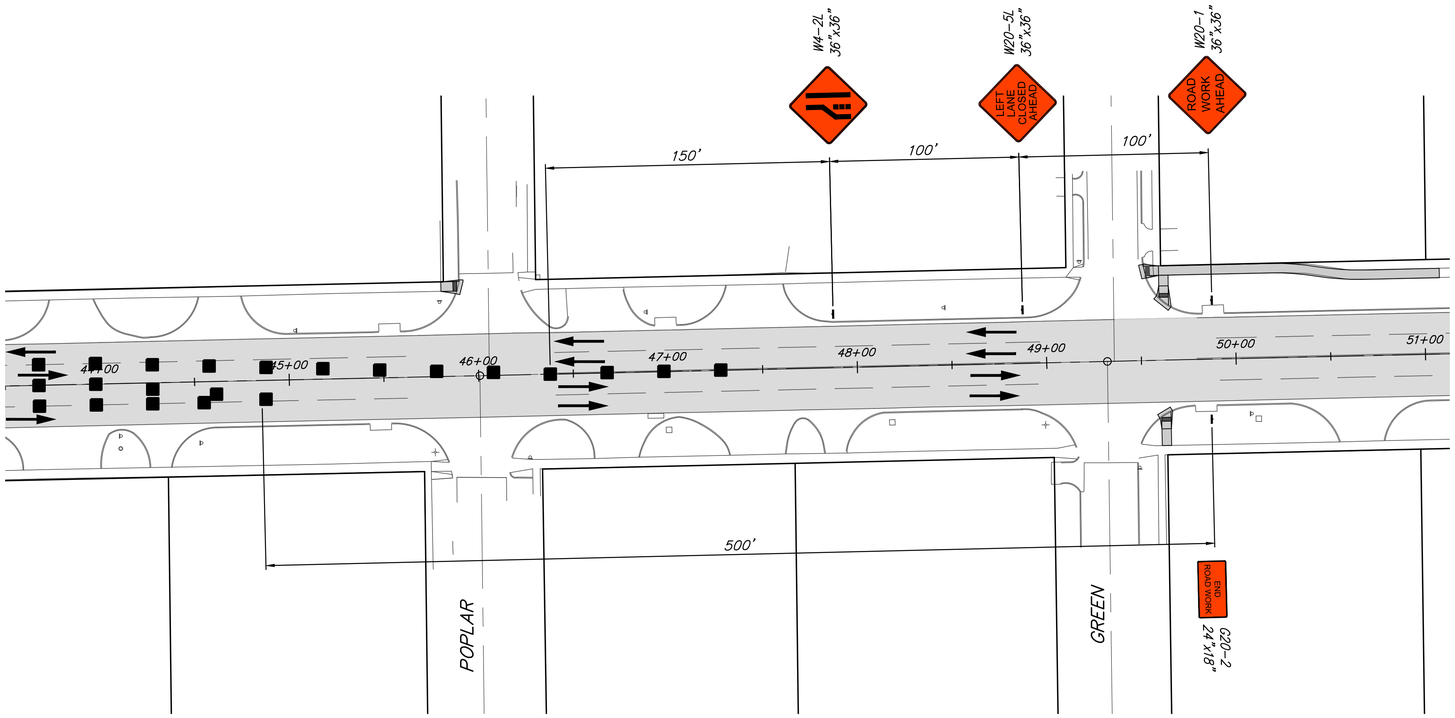

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Scale: 1" = 40' Horizontal

LEGEND:

- Direction of Traffic Flow
- Channelizing Device
- Type 3 Barricade
- Pedestrian Channelizer
- Temp Traffic Sign
- Work Zone

*Temporary Traffic Control – Phase 3

Item	Quantity	Unit
Channelizing Device	312	EA
Type 3 Barricade	50	EA
Pedestrian Channelizer	23	EA
Traffic Sign (Road Closed)(R11-2)	16	EA
Traffic Sign (End Road Work)(G20-2)	2	EA
Traffic Sign (Road Work Ahead)(W20-1)	1	EA
Traffic Sign (Left Lane Closed Ahead)(W20-5L)	1	EA
Traffic Sign (Merge Left)(W4-2L)	1	EA

*NOTES

1. Temporary Traffic Control items provided for Information Only. To be Bid as one Lump Sum Item.
2. Quantities provided for entire Phase. Actual amount will vary depending on Contractors operations within this Phase.

Bid Items

Bid Item	Quantity	Unit
Traffic Control	1	LS

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CITY OF WICHITA
17TH STREET

TRAFFIC CONTROL PLAN PHASE 3

STREET IMPROVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

DESIGN: BDC DRAWN: BDC

DATE: August 5, 2025

SHEET 115 OF 148

File: E:\Projects\Wichita 17th St. I-135 to Hillside (23-04-E484)\Engineering\DWG\TC PLAN AND DETAILS.dwg

1) Design Speed: Those items delegated to temporary traffic control should be designed and installed using the posted/legal speed of the roadway prior to work starting.

2) Minimum Lane Width: Lane widths shall be a minimum of 11' (measured between centerlines of pavement markings) or as shown on the plans, or as directed by the engineer. A lane width less than 11' may require restricted roadway width signing.

3) Consideration should be made to separate pedestrian and, if needed, bicycle movements from both work site activity and vehicular traffic. Unless a reasonable safe route that does not involve crossing the roadway can be provided, pedestrians should be appropriately directed with advance signing that encourages them to cross to the opposite side of the roadway. In urban and suburban areas with high vehicular traffic volumes, these signs should be placed at intersections (rather than midblock locations) so that pedestrians are not confronted with midblock work sites that will induce them to attempt skirting the work site or making a midblock crossing.

4) When existing pedestrian facilities are disrupted, closed, or relocated, the temporary facilities shall be detectable and include accessibility features consistent with the features present in the existing pedestrian facility.

5) When the driving surface open to traffic is milled or is a temporary surface made of loose material, or when directed by the engineer a W8-15 (Grooved Pavement) or W8-7 (Loose Gravel) sign shall be used on mainline approaches. This sign should be placed a "C" distance after the W20-1 (Road Work Ahead) sign. A W8-15p motorcycle plaque shall be used to supplement the W8-15 or W8-7 signs. All signs shall be displayed as long as the condition is present.

6) Alternative temporary rumble strip options may be available. Please contact the Temporary Traffic Control Unit for more information at 785-296-1179 or 785-296-1183.

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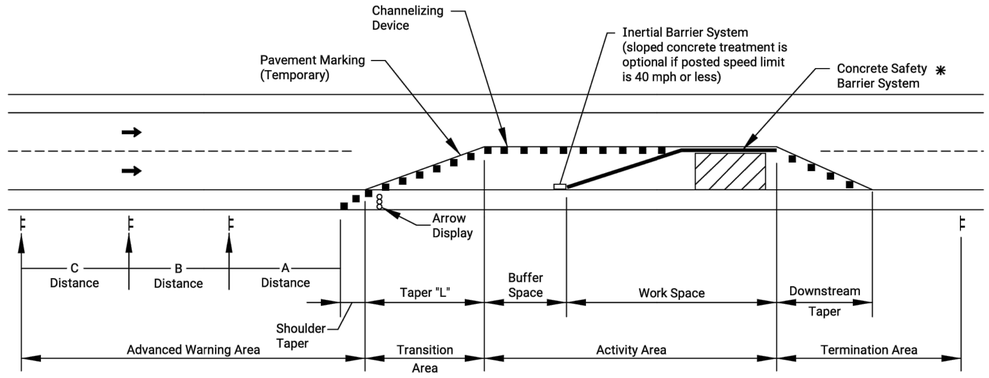

TYPICAL WORK ZONE COMPONENTS

✱ When concrete barrier system is used, portable channelizing devices are not needed along the tangent barrier section.

Minimum advance warning sign spacing (in feet):

SPEED (MPH) ✱	*A*	*B*	*C*
URBAN (40 MPH OR LOWER)	*100*	*100*	*100*
URBAN (45 MPH OR HIGHER)	*350*	*350*	*350*
RURAL (55 MPH OR LOWER)	*500*	*500*	*500*
RURAL (60 MPH OR HIGHER)	*750*	*750*	*750*
EXPRESSWAY/FREEWAY	*1000*	*1500*	*2640*

✱ Posted speed prior to work starting

The minimum spacing between signs shall be no less than 100', unless directed by the engineer.

The spacing between any signs may be increased beyond the minimum values in the table above as approved by the engineer in order to maximize visibility.

Taper Formulas:

L = WS for speeds of 45 MPH or more

$L = WS^2/60$ for speeds of 40 MPH or less

Where: L = Minimum length of taper in feet
S = Numericial value of posted speed prior to work starting in MPH
W = Width in offset feet

Shifting Taper=1/2 L
Shoulder Taper=1/3 L

Channelizer Placement:

(1) The spacing between devices in transition area (taper) should not exceed a distance in feet equal to 1/2 the posted speed limit in mph prior to work starting.

(2) The spacing between devices in the advanced warning area and the activity area should not exceed a distance in feet equal to two times the posted speed limit in mph prior to work starting.

(3) Channelizing devices shall be placed for optimum visibility, normally at right angles to the traffic flow.

(4) Place directional indicator barricades in series to direct traffic onto the new path. The arrow sign should not be visible to opposing traffic.

(5) Alternating diagonal orange and white striping must slope downward in the direction traffic is expected to pass.

Buffer Space

SPEED (MPH) ✱	*20*	*25*	*30*	*35*	*40*	*45*	*50*	*55*	*60*	*65*	*70*	*75*
LENGTH (ft)	*115*	*155*	*200*	*250*	*305*	*360*	*425*	*495*	*570*	*645*	*730*	*820*

✱ Posted speed prior to work starting

Neither work activity nor storage of equipment, vehicles, or material should occur in the buffer space. When a protection vehicle is placed in advance of the work space, only the space upstream of the vehicle constitutes the buffer space.

If temporary concrete safety barrier system is used to separate approaching traffic from the work space, the barrier system shall be considered part of the activity area. A full lane width should be available throughout the length of the buffer space. See typical work zone components above.

NO.	DATE	REVISIONS	BY	APP'D
02	03-13-18	W8-15p usage changed to Shall	R.W.B.	E.K.G.
01	08-18-15	Channelizer spacing info	R.W.B.	K.E.

KANSAS DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL GENERAL NOTES

TE700

FHWA APPROVAL		03-13-18	APP'D.		Eric Kocher
DESIGNED B.A.H.	DETAILED R.W.B.		QUANTITIES	TRACED	
DESIGN CK.	DETAIL CK.		QUAN.CK.	TRACE CK.	

KDOT Graphics Certified 07-18-2022 Sh. No. 0

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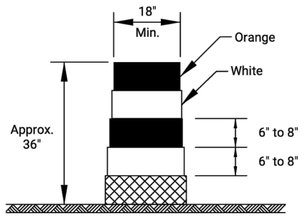
Plotted by : Robert.Bartron@ks.gov 9-AUG-2022 16:44
File : TE700.dgn E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\TC PLAN AND DETAILS.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	117	147



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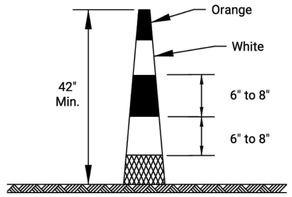
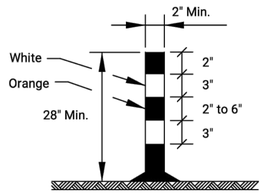
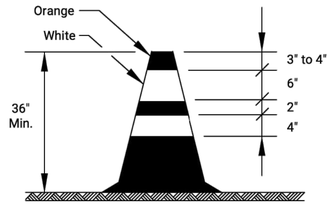


CONICAL
DELINEATOR

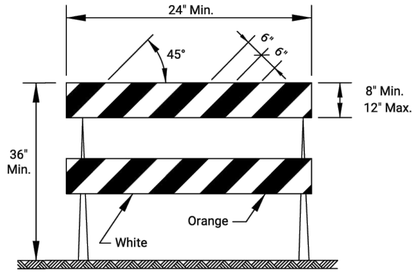


TUBULAR MARKER

Striping as shown for up to 42".

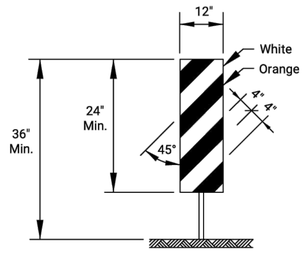


TRAFFIC CONE



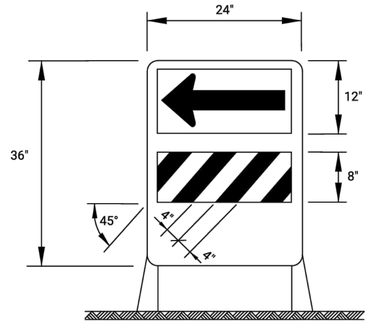
TYPE 2 BARRICADE

For rails less than 36" long, 4" wide stripes may be used.
All stripes shall slope downward to the traffic side for channelization.



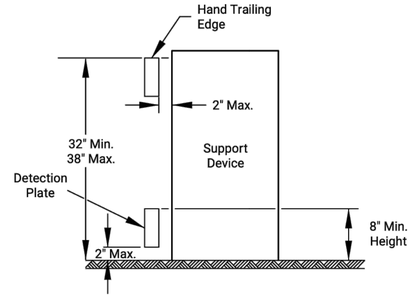
VERTICAL PANEL

The stripes shall slope downward
to the traffic side for channelization.



DIRECTION INDICATOR BARRICADE

The stripes shall slope downward in the direction traffic is to pass.
The direction indicator barricade shall be used in series to direct
the motorist into the intended lane of travel.



PEDESTRIAN CHANNELIZER

1. Support device shall not project beyond the detection plate into the pathway.
2. Hand trailing edges and detection plates are optional for continuous walls.
3. Interconnect pedestrian channelizers to prevent displacement and to provide continuous guidance through or around work.
4. Alternate pathways shall be firm, stable, and slip resistant.
5. Treat height differentials > 1/2" in the surfaces of alternate paths with a firm, stable, and slip resistant temporary ramp having a slope of 12:1 or flatter and having a width equal to the alternate path.
6. Use alternating orange/white on interconnected devices.

Item	Location	Cross-overs	Shoofly Diversions	Tangents	Tapers	Ramps	Head to Head	Object Identifier	Lead-in Devices	Gores
Portable										
	Drums	Yes	Yes	Yes	Yes	Yes	(1)	Yes	Yes	Yes
	Conical Delineators	Yes	Yes	Yes	Yes	Yes	(1)	Yes	Yes	Yes
	Vertical Panels	(2)	(2)	(2)	(2)	(2)	(1,2)	Yes	(2)	(2)
	Direction Indicator Barricade	No	No	No	Yes	No	No	No	No	No
	Type 2 Barricade	(2)	(2)	(2)	(2)	No	No	Yes	No	No
	Traffic Cones	No	No	(4)	(4)	(4)	No	(4)	(4)	(4)
Fixed										
	Tubular Markers	(3)	(3)	(3)	No	(3)	Yes	No	Yes	Yes
	Vertical Panels	(3)	(3)	(3)	(3)	(3)	(3)	Yes	(2,3)	(2)

(1) Not allowed on centerline delineation along freeways or expressways.
(2) The stripes shall slope downward to the traffic side for channelization.
(3) May be used upon the approval of the engineer.
(4) Daytime operations only.

NO.	DATE	REVISIONS	BY	APP'D

KANSAS DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL CHANNELIZING DEVICES

TE702

FHWA APPROVAL		06-01-15	APP'D.	Kristina Ericksen	
DESIGNED	L.E.R.	DETAILED R.W.B.	QUANTITIES	TRACED	
DESIGN CK.		DETAIL CK.	QUAN.CK.	TRACE CK.	

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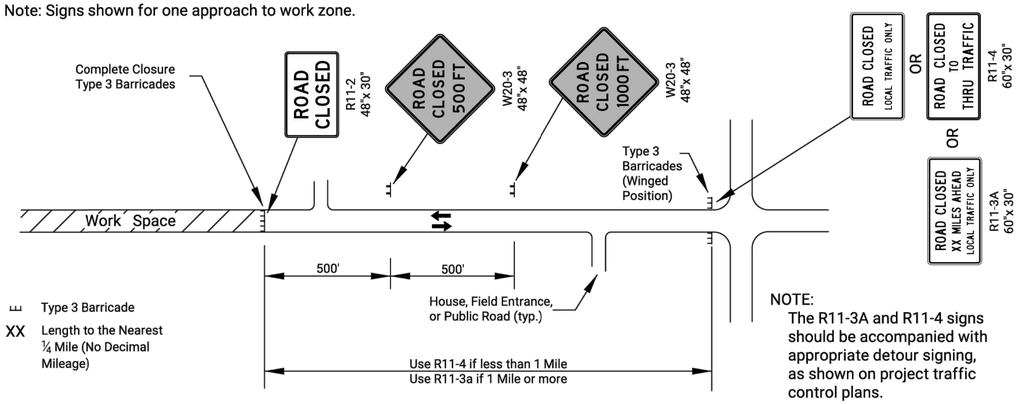
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	118	147

Note: Signs shown for one approach to work zone.



NOTE:
The R11-3A and R11-4 signs should be accompanied with appropriate detour signing, as shown on project traffic control plans.

FIGURE 1: TYPICAL SIGNING FOR ROAD CLOSURE (MAINLINE OR SIDE ROAD)

Note: Sign shown for one approach to intersection (work zone).

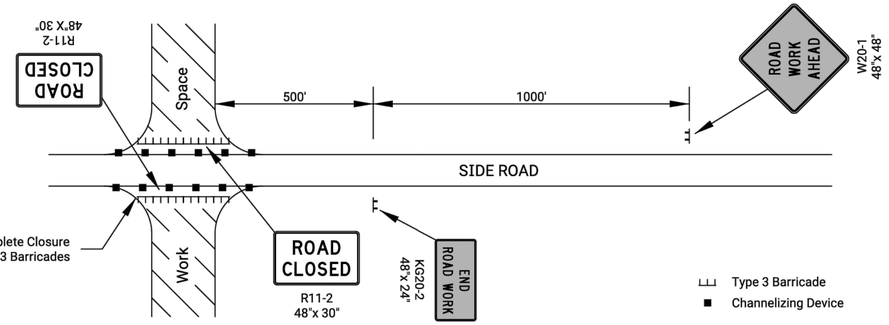


FIGURE 2: TYPICAL SIGNING FOR SIDE ROAD OPEN

Note: Signs shown for one approach to work zone.

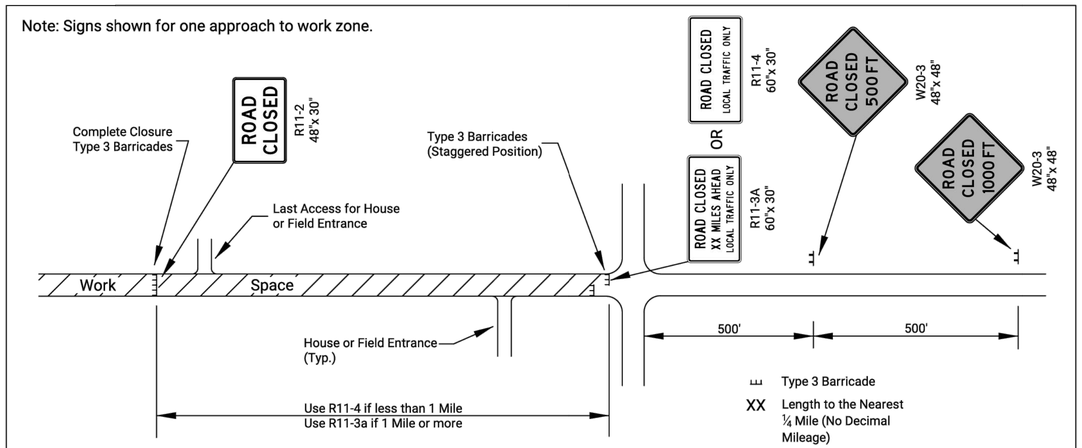


FIGURE 3: TYPICAL SIGNING FOR ROAD CLOSURE - LOCAL TRAFFIC ACCESS

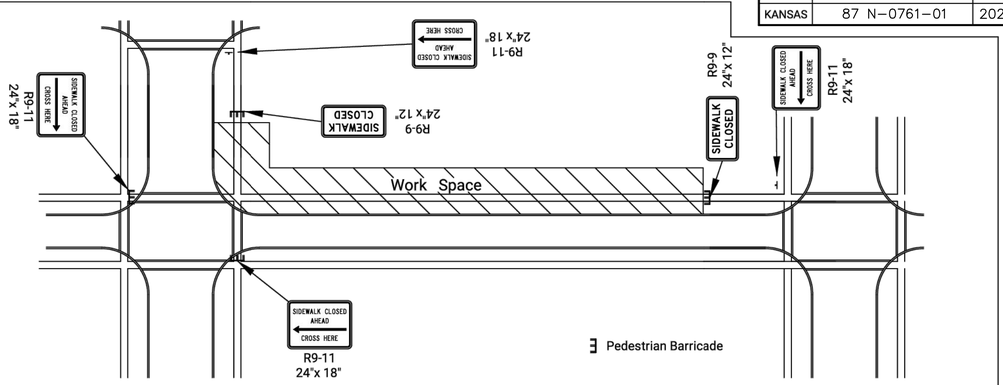
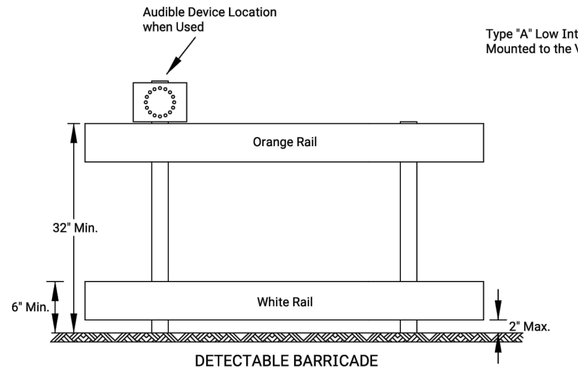
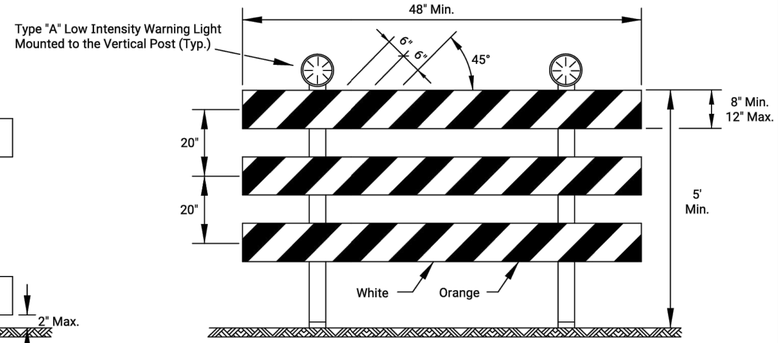


FIGURE 4: TYPICAL SIGNING FOR SIDEWALK CLOSED WITH OPPOSITE SIDEWALK AVAILABLE



DETECTABLE BARRICADE

1. Support device shall not project beyond the detection plate into the pathway.
2. Barricades shall be used to close the entire width of the pathway.
3. Do not use warning lights on pedestrian barricades.
4. Do not use warning lights on audible devices.



TYPE 3 BARRICADE WITH LIGHTS

Approved signs mounted on Type 3 barricades should not cover more than 50% of the top two rails or 33% of the total area of the three rails.

When barricades are placed end-to-end or staggered, a Type "A" low intensity warning light shall be mounted to the vertical post near each outside corner of the end barricades.

ROAD CLOSED GENERAL NOTES

As shown in Figure 1, at the point where thru traffic must detour and local traffic can proceed to the location where the roadway is completely closed, the R11-3a (ROAD CLOSED # MILES AHEAD LOCAL TRAFFIC ONLY) or R11-4 (ROAD CLOSED LOCAL TRAFFIC ONLY or ROAD CLOSED TO THRU TRAFFIC) sign shall be used with Type 3 barricades (winged position), placed on the shoulders of roadway.

As shown in Figure 3, when local traffic must be allowed access into the work zone, Type 3 barricades shall be longitudinally staggered to maintain the appearance of a closed roadway. A second line of end-to-end Type 3 barricades shall be placed just beyond the last access point in the work zone, to completely close the roadway.

The R11-4 (ROAD CLOSED TO THRU TRAFFIC or ROAD CLOSED LOCAL TRAFFIC ONLY) sign shall be used when the distance to the point of complete closure of the roadway is less than 1 mile.

The R11-3a (ROAD CLOSED # MILES AHEAD LOCAL TRAFFIC ONLY) sign shall be used when the distance to the point of complete closure of the roadway is 1 mile or greater.

The words "BRIDGE OUT" (or BRIDGE CLOSED) may be substituted for the words "ROAD CLOSED" on the R11-3a or R11-4 sign where applicable.

NO.	DATE	REVISIONS	BY	APP'D

KANSAS DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL CLOSURES

TE704

FHWA APPROVAL		06-01-15	APP'D.	Kristina Ericksen	
DESIGNED	B.A.H.	DETAILED	R.W.B.	QUANTITIES	TRACED
DESIGN CK.		DETAIL CK.		QUAN.CK.	TRACE CK.

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STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	119	147

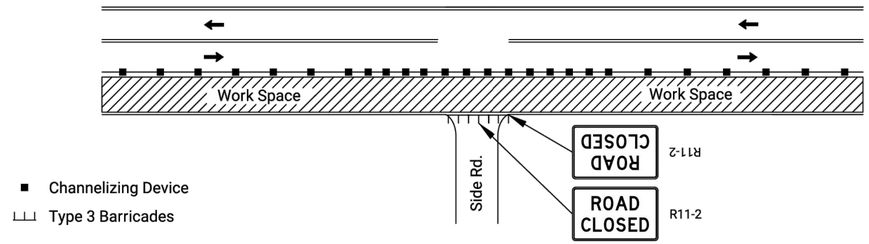

FIGURE 1: SIDE ROAD OR ENTRANCE CLOSED THROUGH WORK AREA

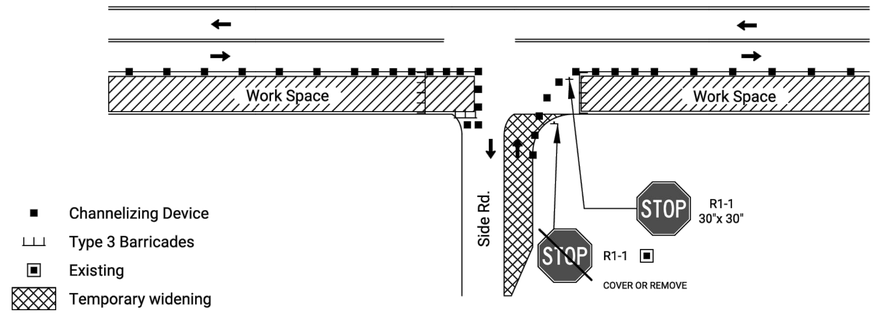

FIGURE 4: SIDE ROAD OR ENTRANCE CONSTRUCTED HALF AT A TIME: TWO WAY TRAFFIC REQUIRED

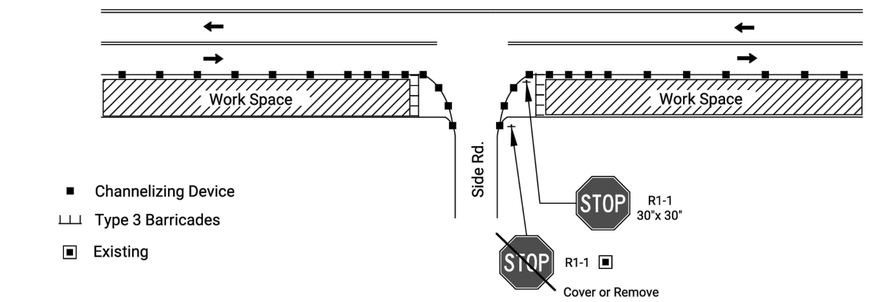

FIGURE 2: SIDE ROAD OR ENTRANCE OPEN THROUGH WORK AREA

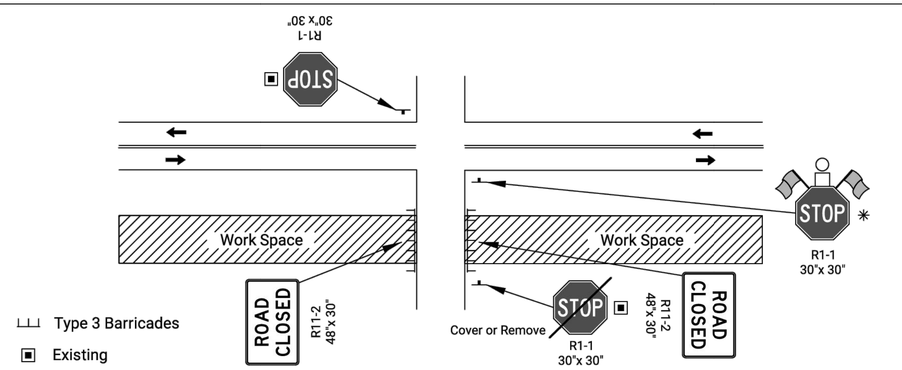

FIGURE 5: SIDE ROAD OPEN THROUGH WORK AREA ON DIVIDED ROADWAY

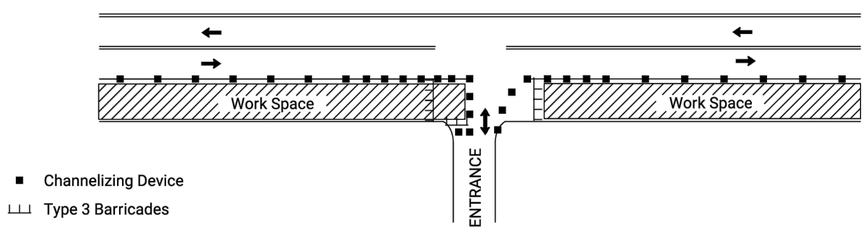

FIGURE 3: LOW VOLUME ENTRANCE CONTRUCTED HALF AT A TIME

Note: Consider large vehicles making right turns into and out of entrance and use figure 4 as needed

NO.	DATE	REVISIONS	BY	APP'D

KANSAS DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL
ACCESS THROUGH THE WORK AREA

TE705

FHWA APPROVAL		06-01-15	APP'D.	Kristina Ericksen			
DESIGNED	R.W.B.	DETAILED	R.W.B.	QUANTITIES		TRACED	
DESIGN CK.		DETAIL CK.		QUAN.CK.		TRACE CK.	

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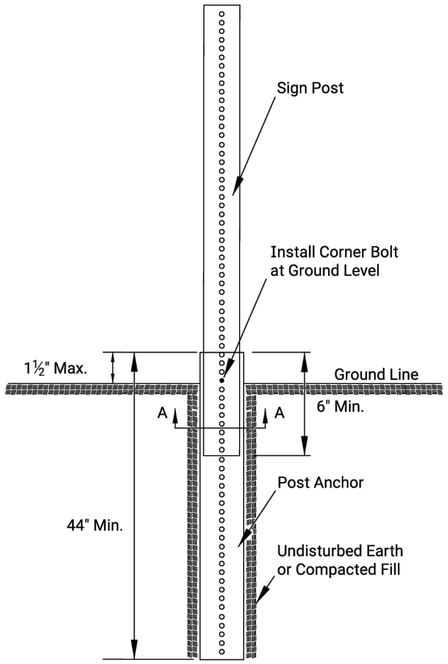
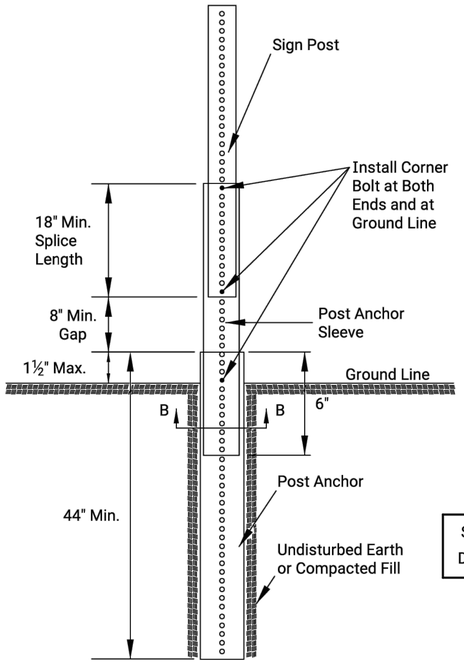
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	120	147

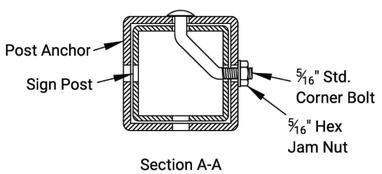
PERFORATED SQUARE STEEL TUBE (P.S.S.T.) POST SETUP



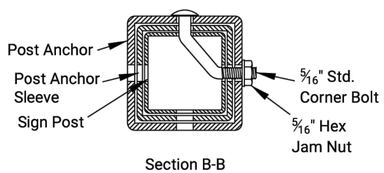
P.S.S.T. Detail



Telescoping P.S.S.T. Detail



Section A-A

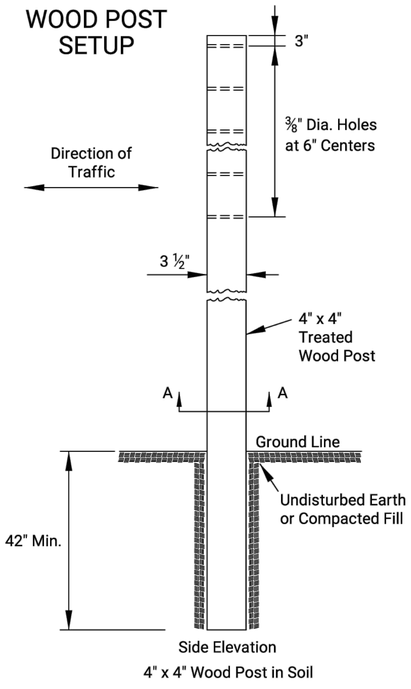


Section B-B

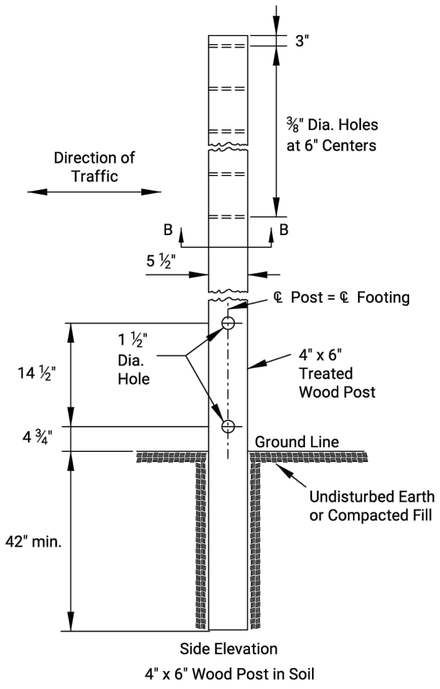
Details for 2", 2 ¼", or 2 ½" sign posts

Place bolts in the same corner along each sign post.

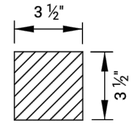
WOOD POST SETUP



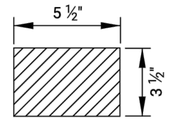
Side Elevation
4" x 4" Wood Post in Soil



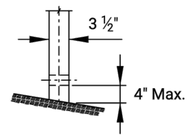
Side Elevation
4" x 6" Wood Post in Soil



Section A-A



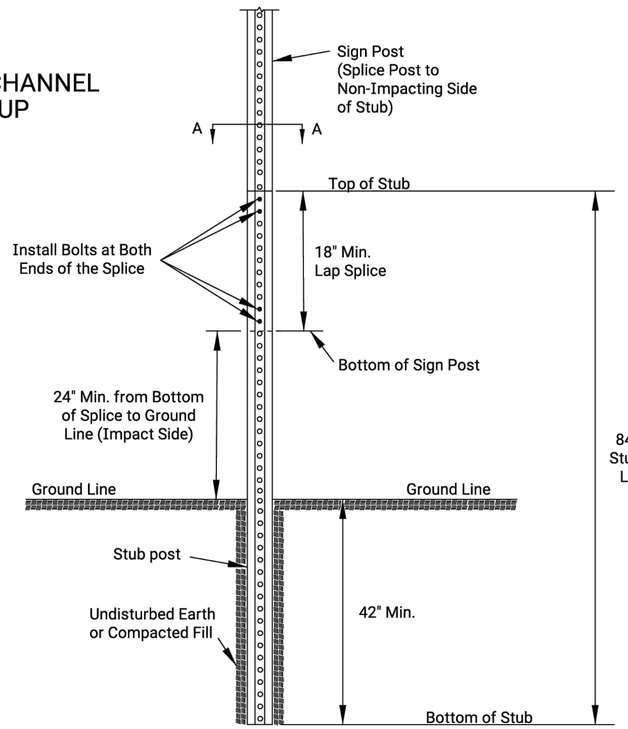
Section B-B



Front Elevation

See TE710 for Additional Details and Requirements

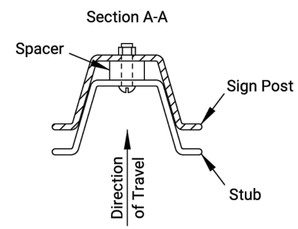
3 LB/F U-CHANNEL SETUP



Notes:

Place two bolts at both ends of the splice through the holes nearest the ends of the splice.

Use manufacturer recommended spacers over the bolts between the spliced pieces of U-Channel.



NO.	DATE	REVISIONS	BY	APP'D

KANSAS DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SIGN POSTS

TE712

FHWA APPROVAL		06-01-15	APP'D.	Kristina Ericksen	
DESIGNED	B.A.H.	DETAILED	R.W.B.	QUANTITIES	TRACED
DESIGN CK.		DETAIL CK.		QUAN.CK.	TRACE CK.

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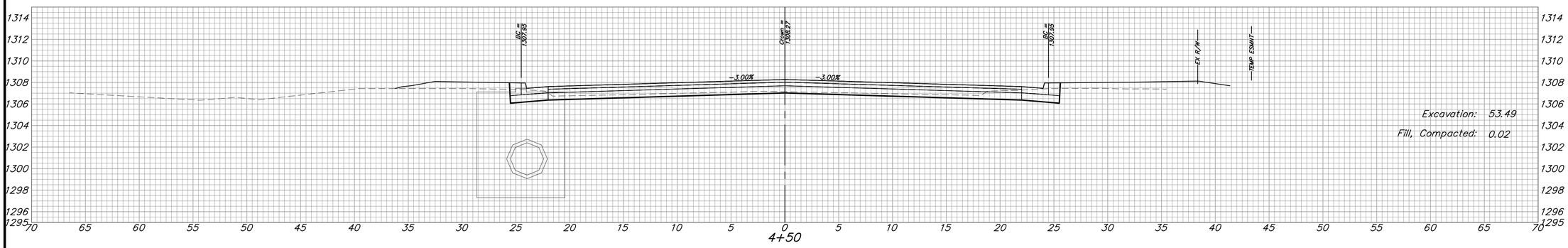
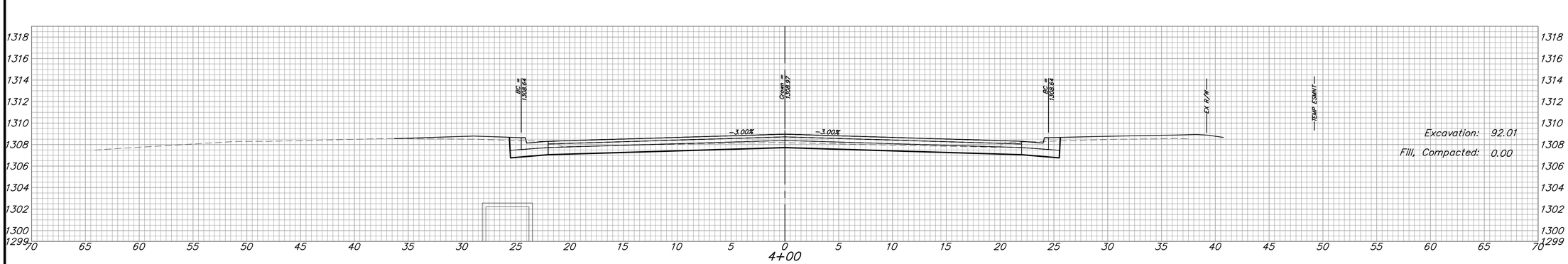
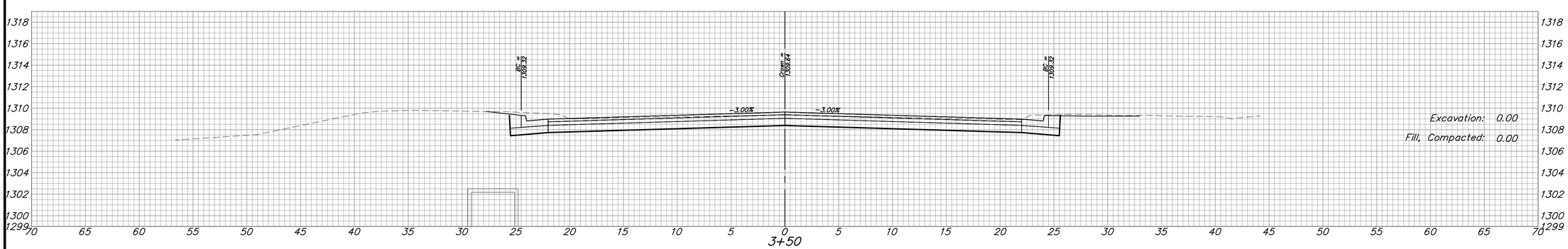
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	121	148







BRENT CHESNUTT
LICENSED
2349
08/05/2025
KANSAS
PROFESSIONAL ENGINEER

BAUGHMAN COMPANY
315 Ellis St.
Wichita, KS 67211
316-262-7271
BaughmanCo.com

CITY OF WICHITA
17TH STREET

CROSS SECTIONS 1

STREET IMRPOVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

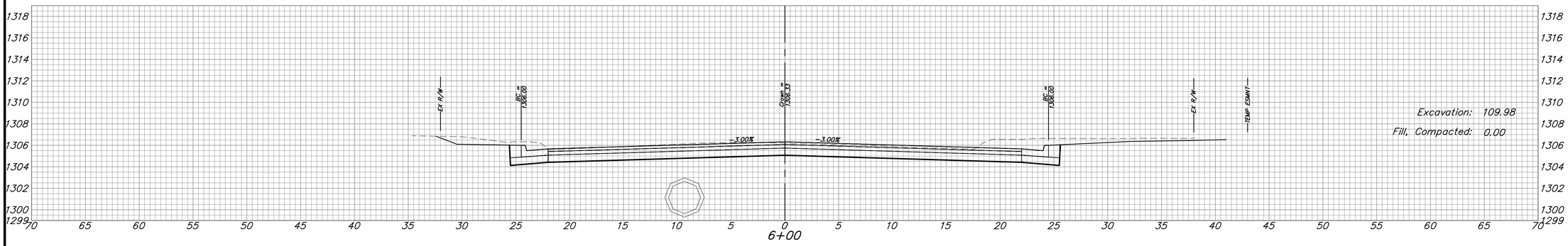
DESIGN: BDC DRAWN: BDC

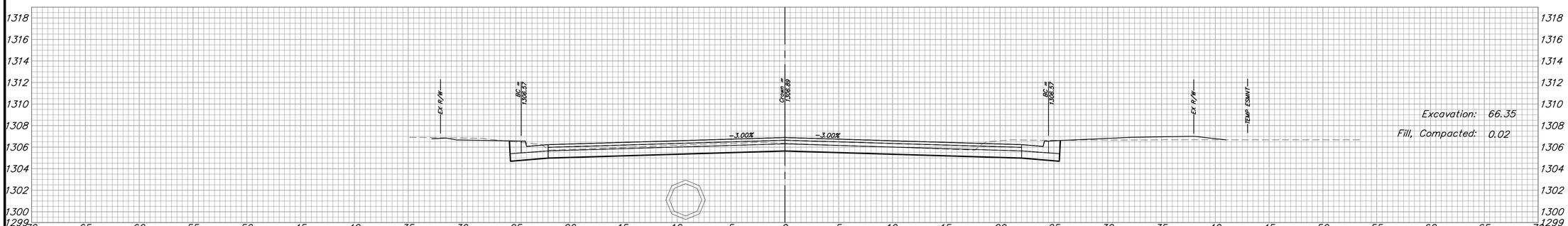
DATE: August 5, 2025

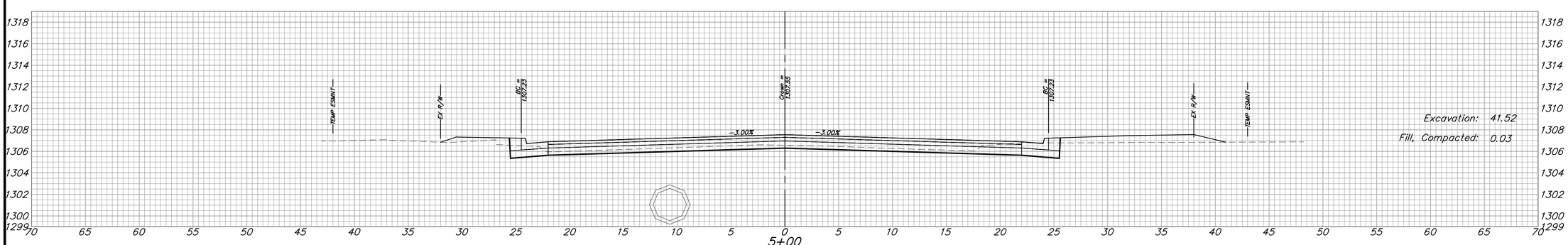
SHEET 121 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\CROSS SECTIONS.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	122	148







BAUGHMAN COMPANY
315 Ellis St.
Wichita, KS 67211
316-262-7271
BaughmanCo.com

CITY OF WICHITA
17TH STREET

CROSS SECTIONS 2

STREET IMRPOVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

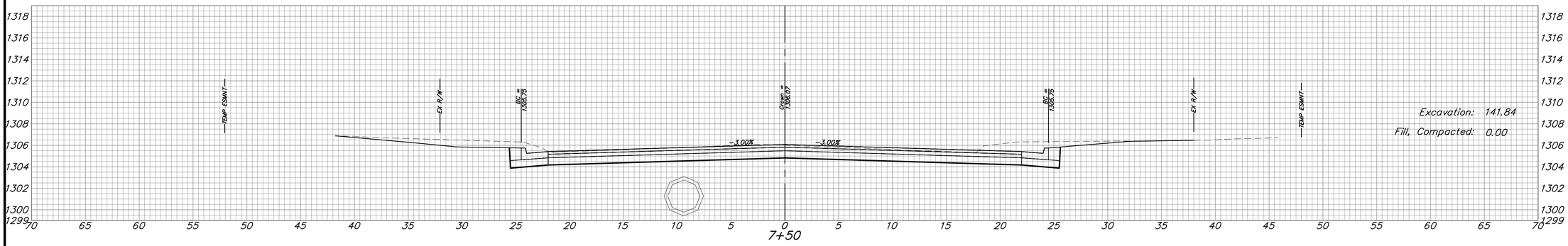
DESIGN: BDC DRAWN: BDC

DATE: August 5, 2025

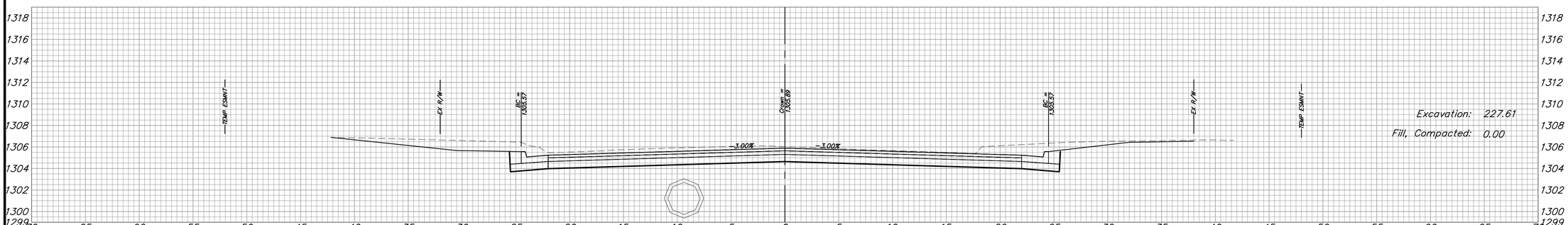
SHEET 122 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\CROSS SECTIONS.dwg

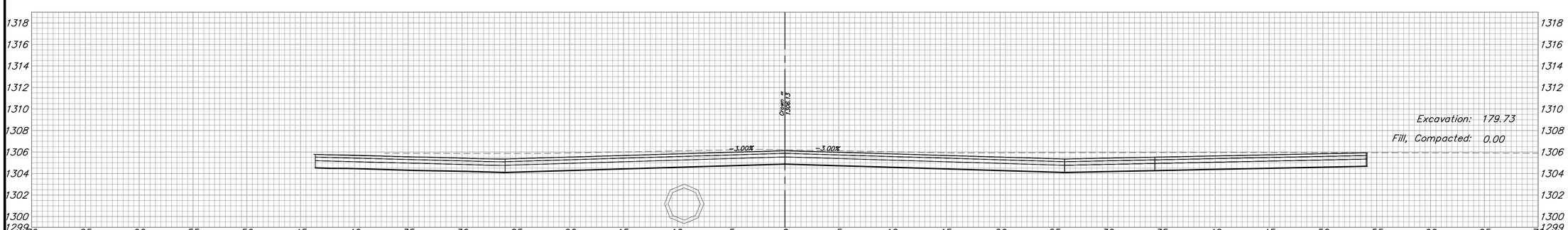
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	123	148



7+50



7+00



6+45.43

BRENT CHESNUTT
NO. 23419
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PROFESSIONAL ENGINEER

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CITY OF WICHITA
17TH STREET

CROSS SECTIONS 3

STREET IMRPOVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E485

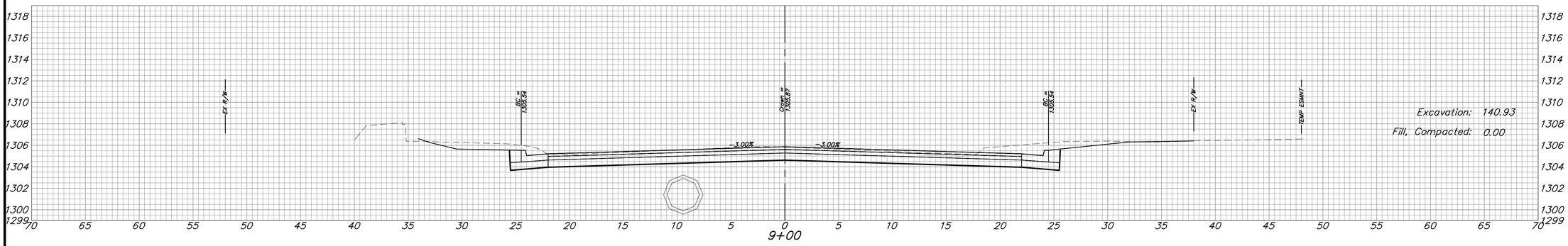
DESIGN: BDC DRAWN: BDC

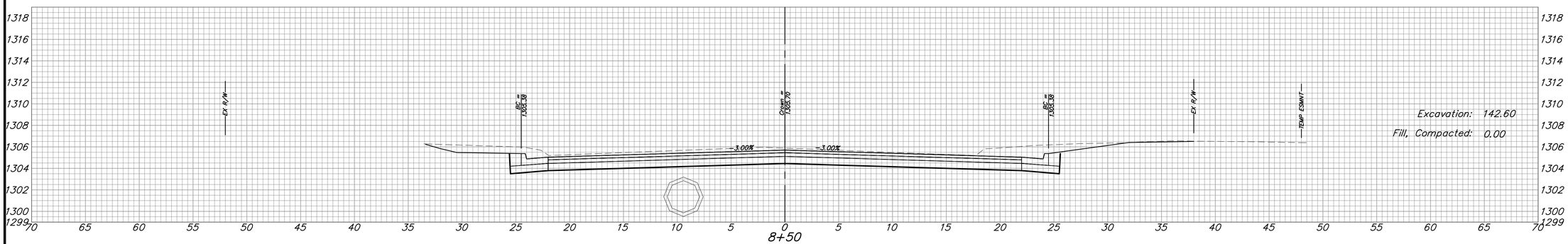
DATE: August 5, 2025

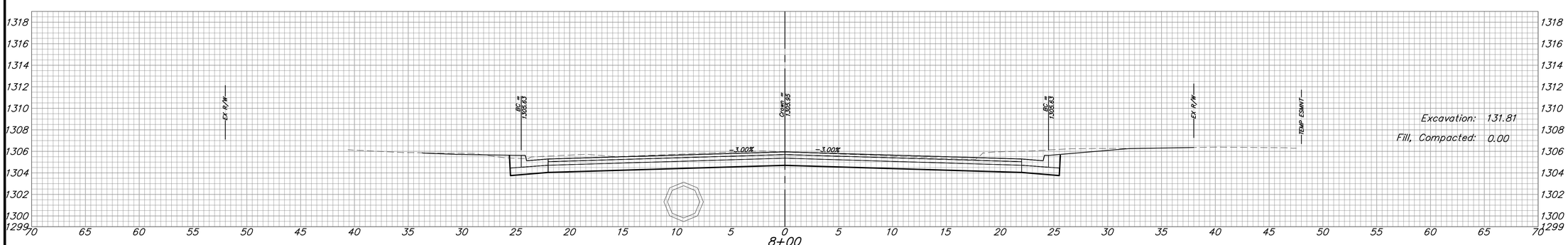
SHEET 123 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\CROSS SECTIONS.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	124	148







BRENT CHESNUTT
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CITY OF WICHITA
17TH STREET

CROSS SECTIONS 4

STREET IMRPOVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

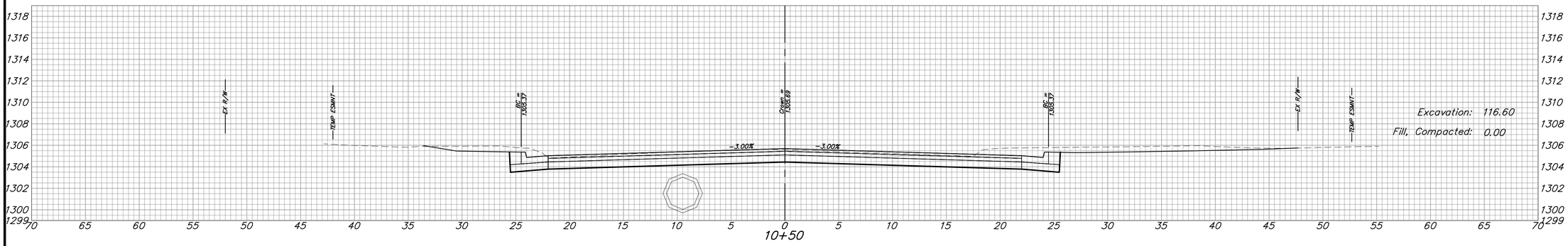
DESIGN: BDC DRAWN: BDC

DATE: August 5, 2025

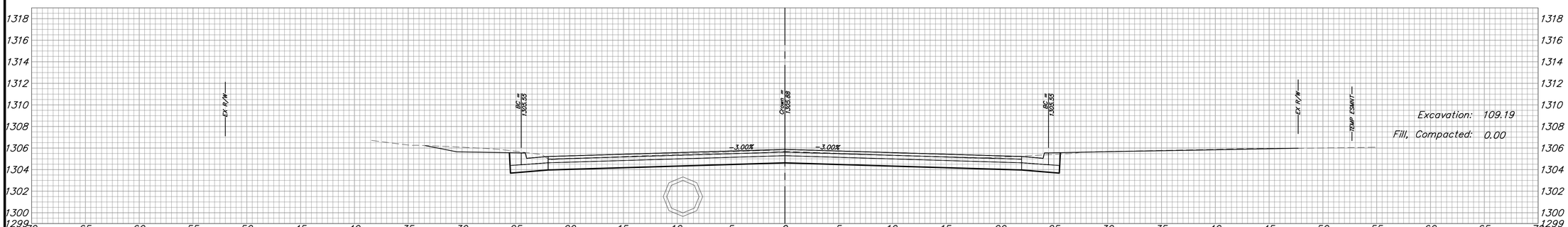
SHEET 124 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\CROSS SECTIONS.dwg

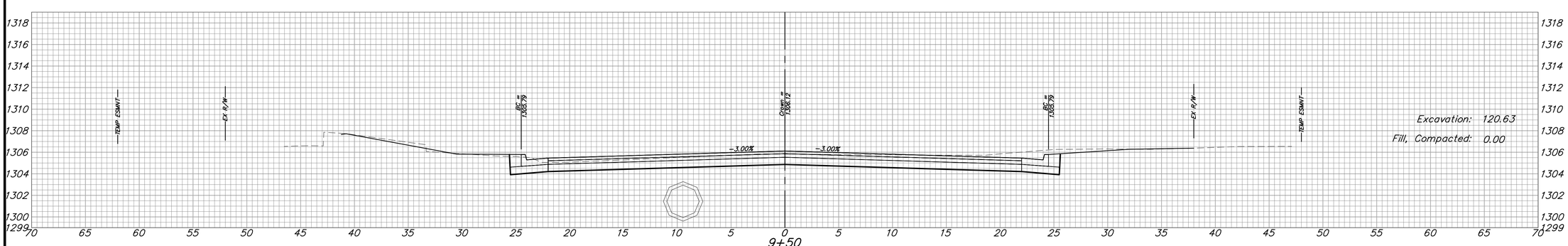
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	125	148



10+50



10+00



9+50

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316-262-7271
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CITY OF WICHITA
17TH STREET

CROSS SECTIONS 5

STREET IMRPOVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

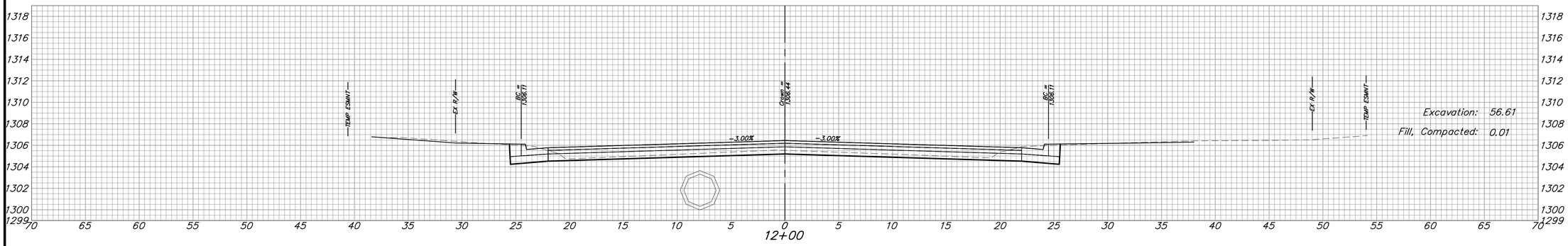
DESIGN: BDC DRAWN: BDC

DATE: August 5, 2025

SHEET 125 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\CROSS SECTIONS.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	126	148



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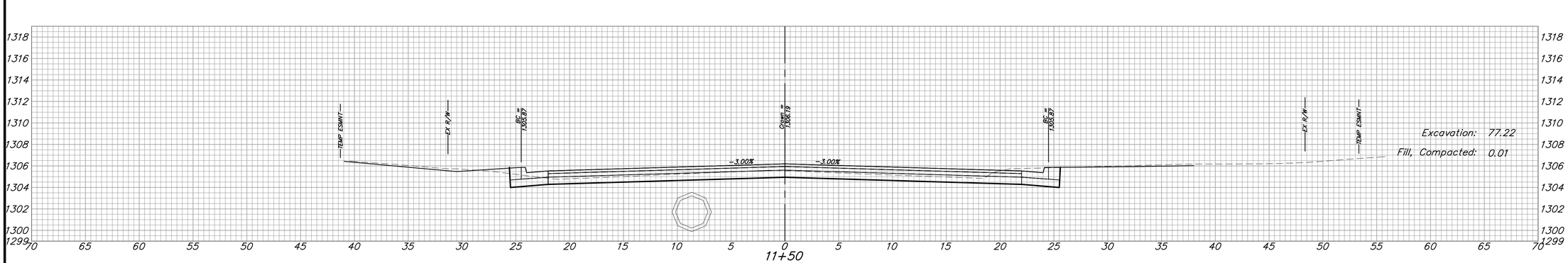
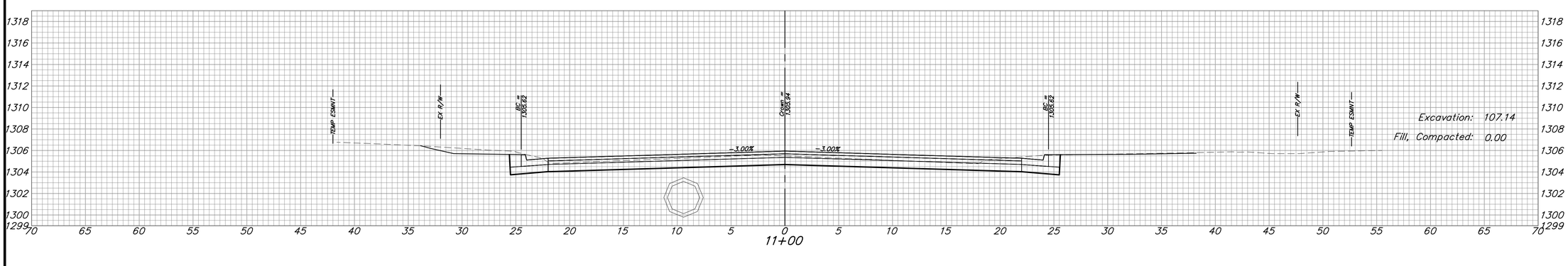


11+50



11+00

BRENT CHESNUTT
LICENSED
23419
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CITY OF WICHITA
17TH STREET

CROSS SECTIONS 6

STREET IMRPOVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

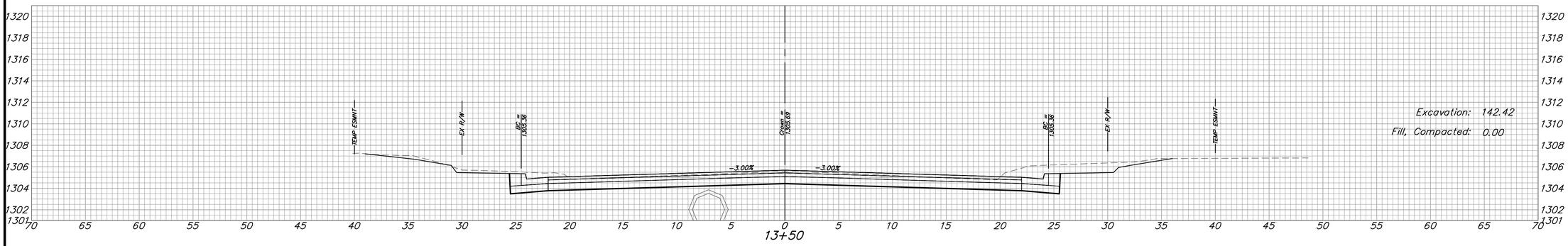
DESIGN: BDC DRAWN: BDC

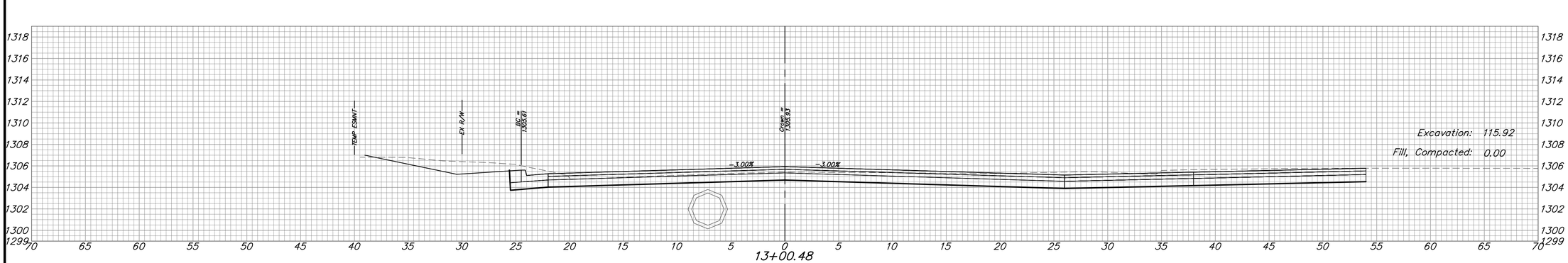
DATE: August 5, 2025

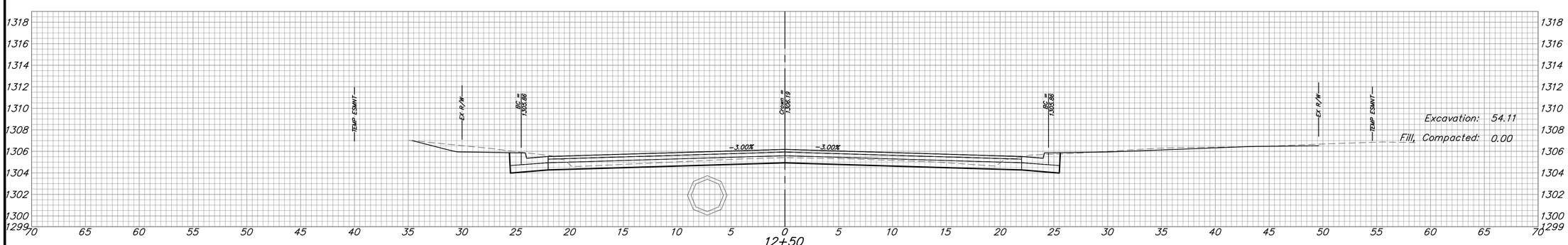
SHEET 126 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\CROSS SECTIONS.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	127	148







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CITY OF WICHITA
17TH STREET

CROSS SECTIONS 7

STREET IMRPOVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

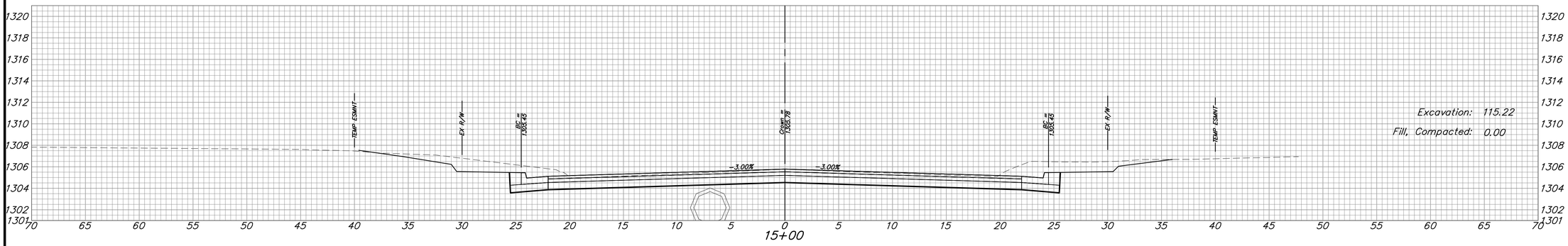
DESIGN: BDC DRAWN: BDC

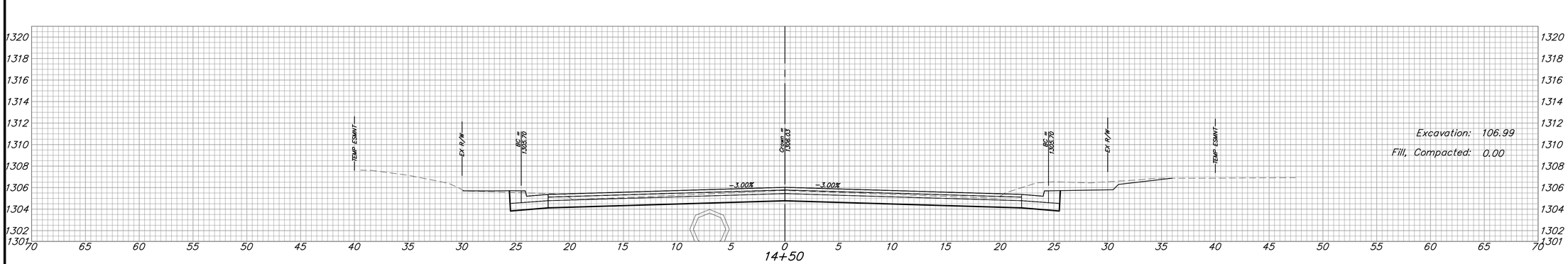
DATE: August 5, 2025

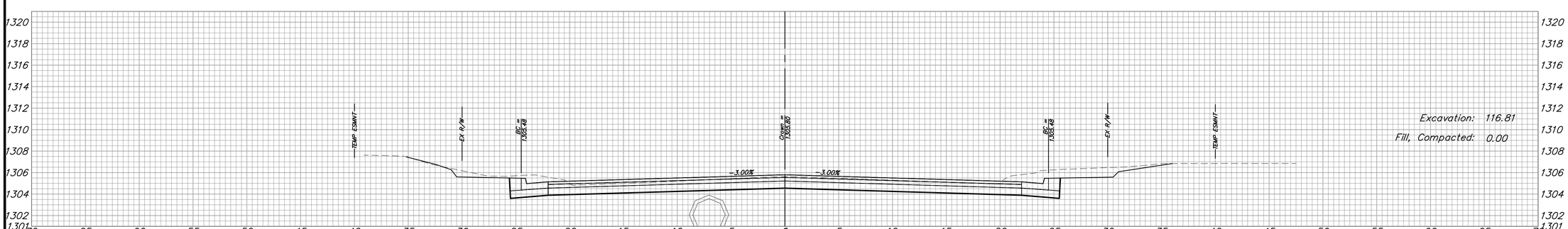
SHEET 127 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\CROSS SECTIONS.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	128	148







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CITY OF WICHITA
17TH STREET

CROSS SECTIONS 8

STREET IMRPOVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

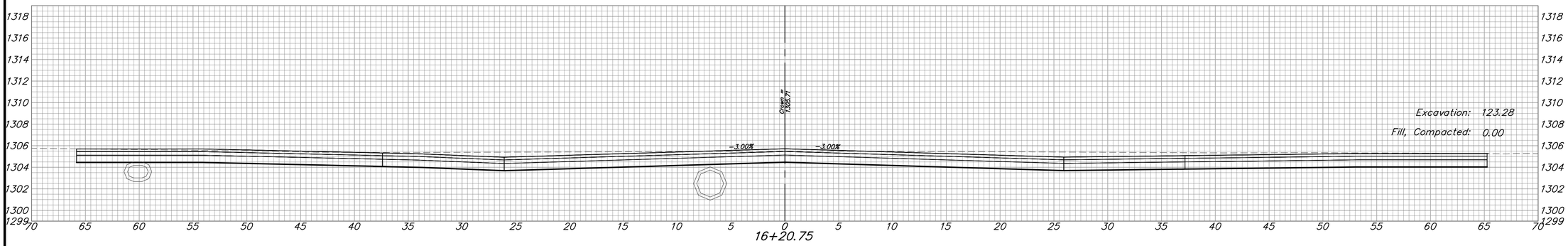
DESIGN: BDC DRAWN: BDC

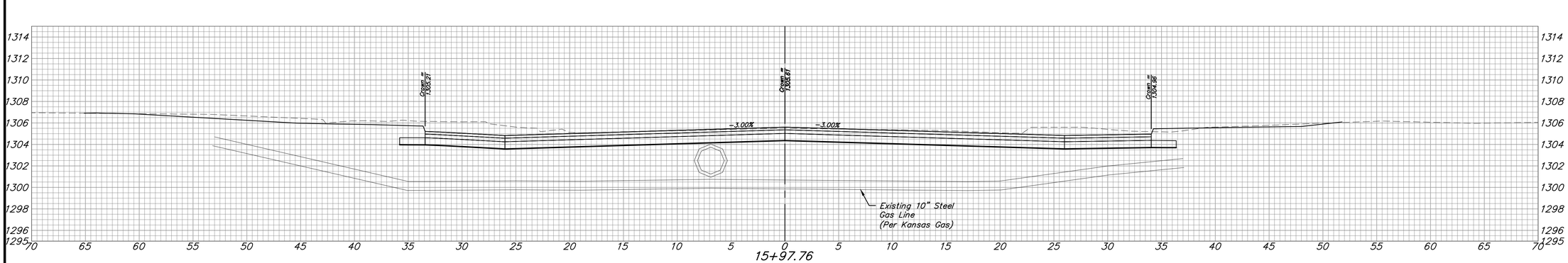
DATE: August 5, 2025

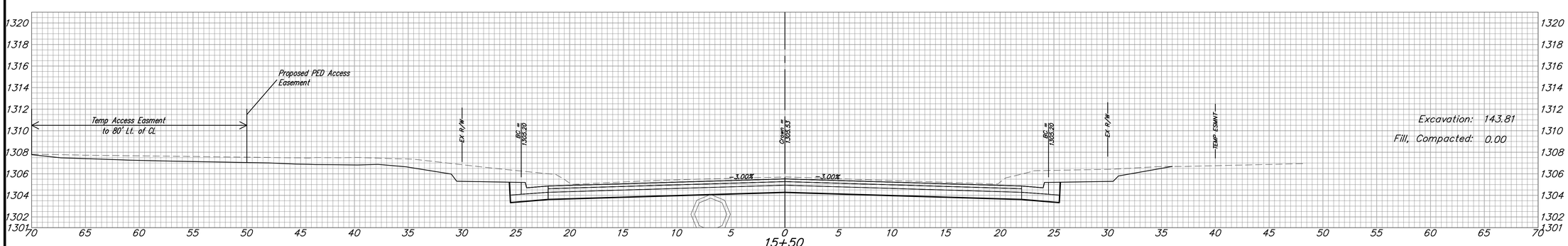
SHEET 128 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\CROSS SECTIONS.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	129	148







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CITY OF WICHITA
17TH STREET

CROSS SECTIONS 9

STREET IMRPOVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

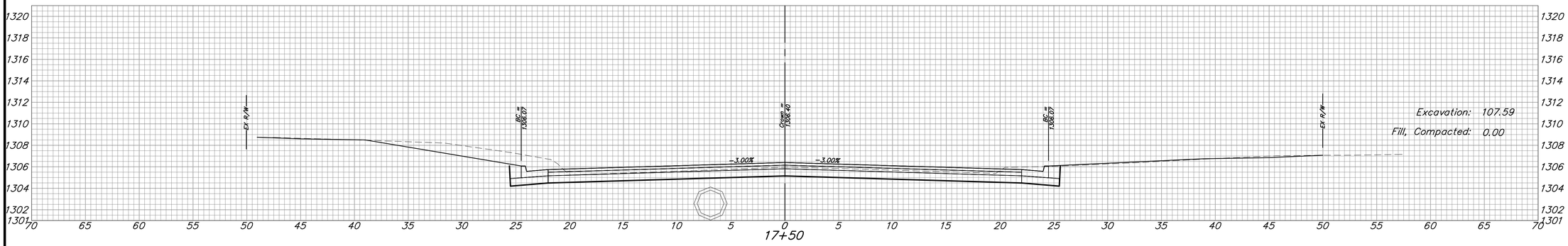
DESIGN: BDC DRAWN: BDC

DATE: August 5, 2025

SHEET 129 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\CROSS SECTIONS.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	130	148



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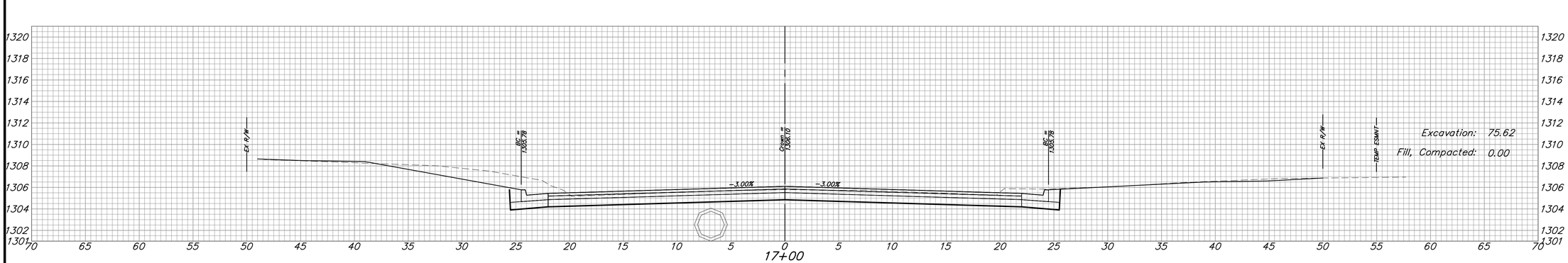
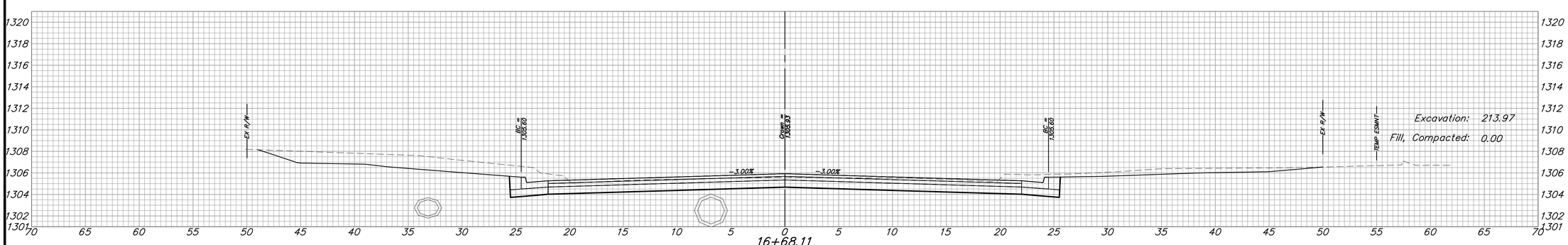


17+00



16+68.11

BRENT CHESNUTT
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2349
08/05/2025
KANSAS
PROFESSIONAL ENGINEER

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CITY OF WICHITA
17TH STREET

CROSS SECTIONS 10

STREET IMRPOVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

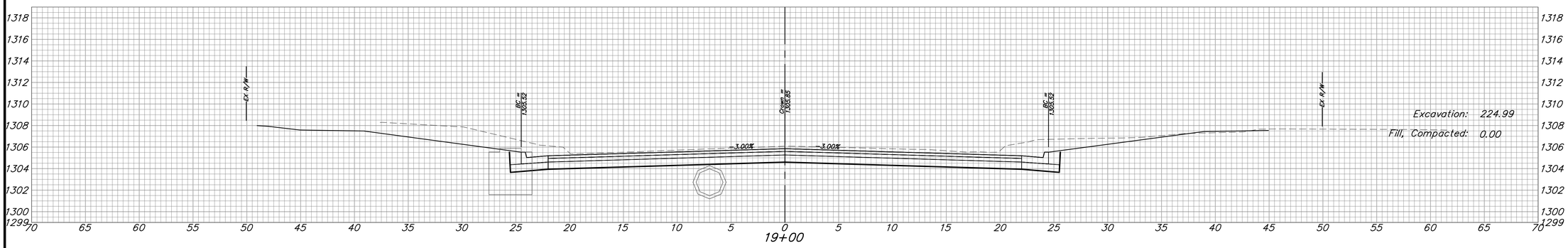
DESIGN: BDC DRAWN: BDC

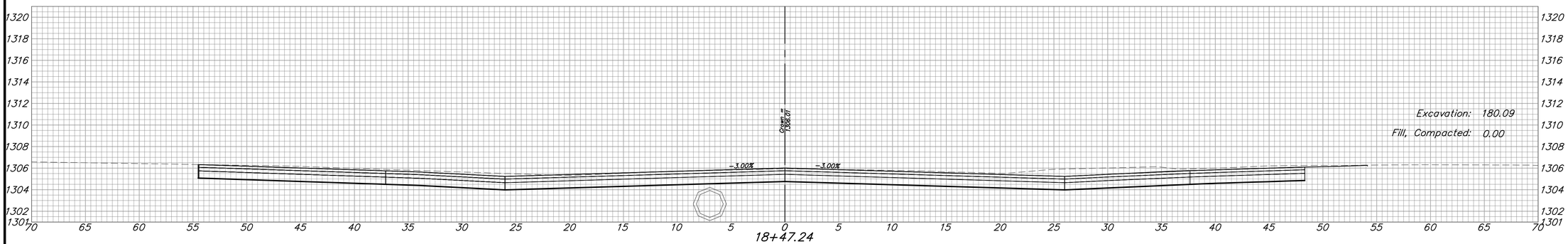
DATE: August 5, 2025

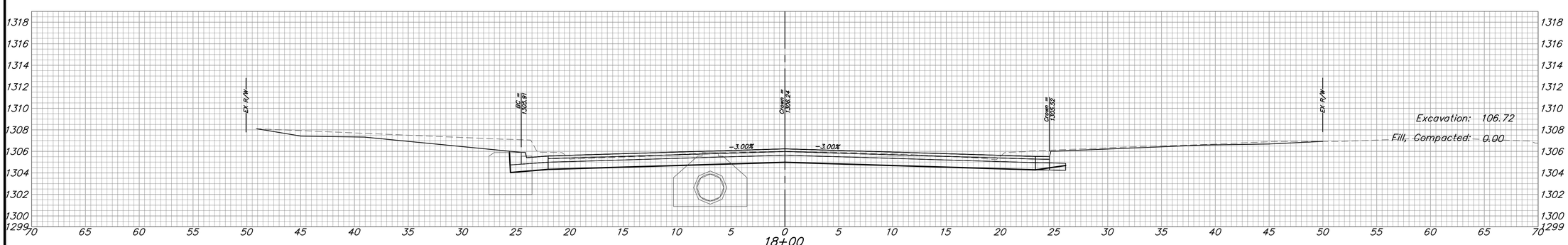
SHEET 130 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\CROSS SECTIONS.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	131	148







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CITY OF WICHITA
17TH STREET

CROSS SECTIONS 11

STREET IMRPOVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

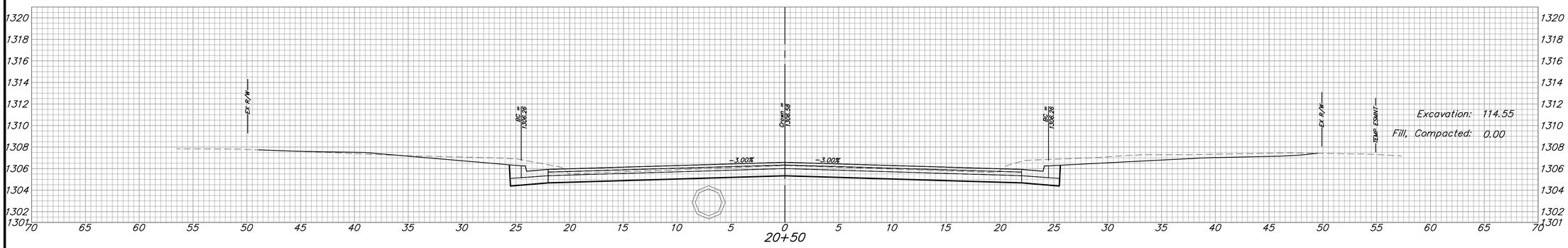
DESIGN: BDC DRAWN: BDC

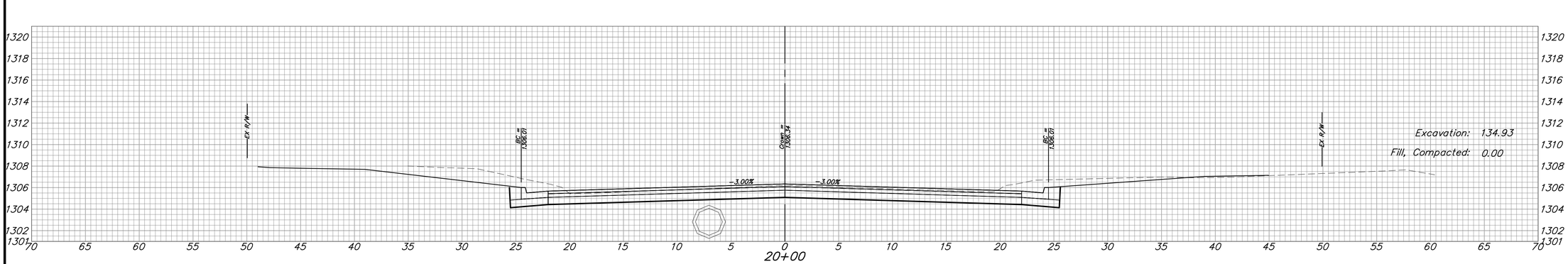
DATE: August 5, 2025

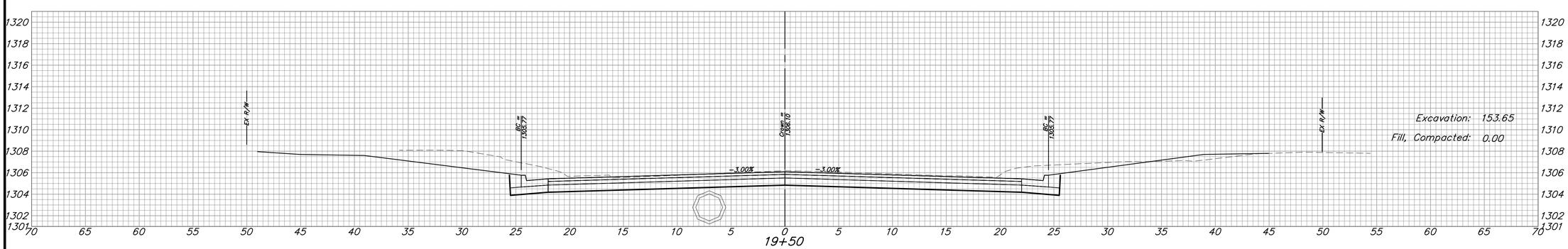
SHEET 131 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\CROSS SECTIONS.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	132	148







BRENT CHESNUTT
LICENSED
2349
08/05/2025
KANSAS
PROFESSIONAL ENGINEER

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CITY OF WICHITA
17TH STREET

CROSS SECTIONS 12

STREET IMRPOVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

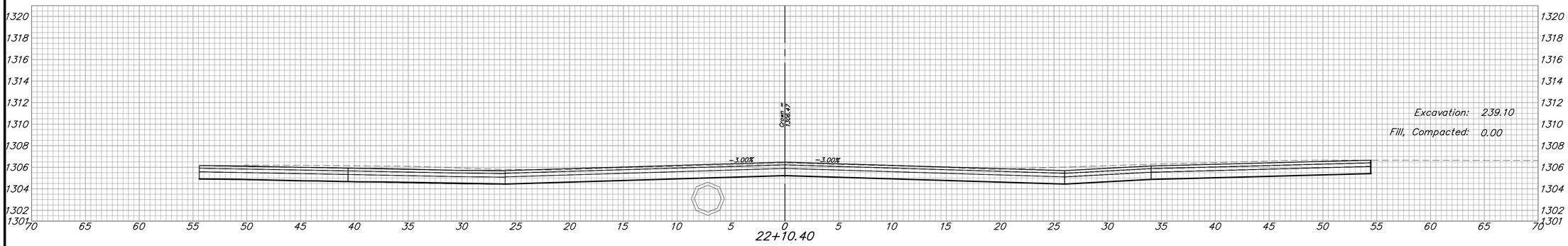
DESIGN: BDC DRAWN: BDC

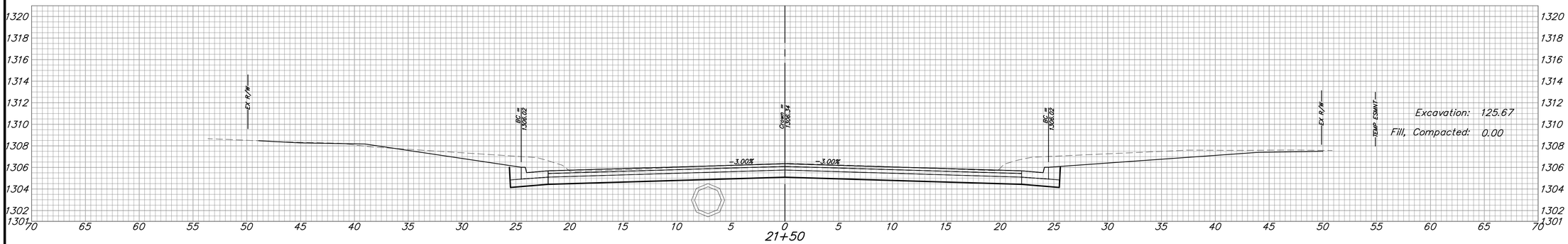
DATE: August 5, 2025

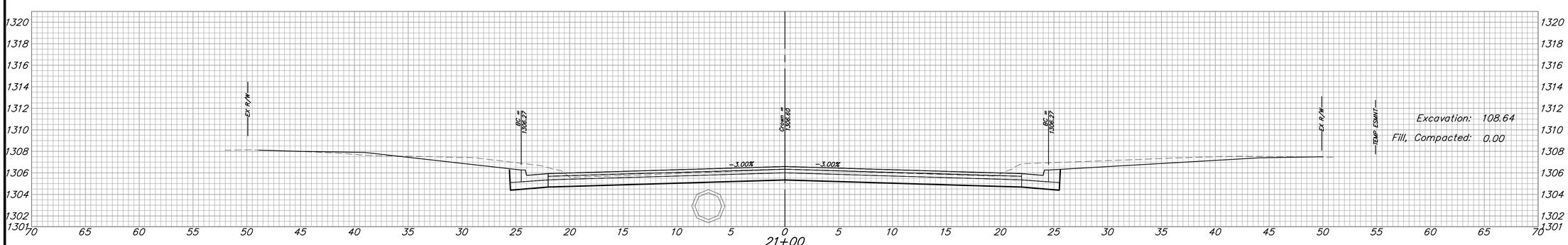
SHEET 132 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\CROSS SECTIONS.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	133	148







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CITY OF WICHITA
17TH STREET

CROSS SECTIONS 13

STREET IMRPOVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

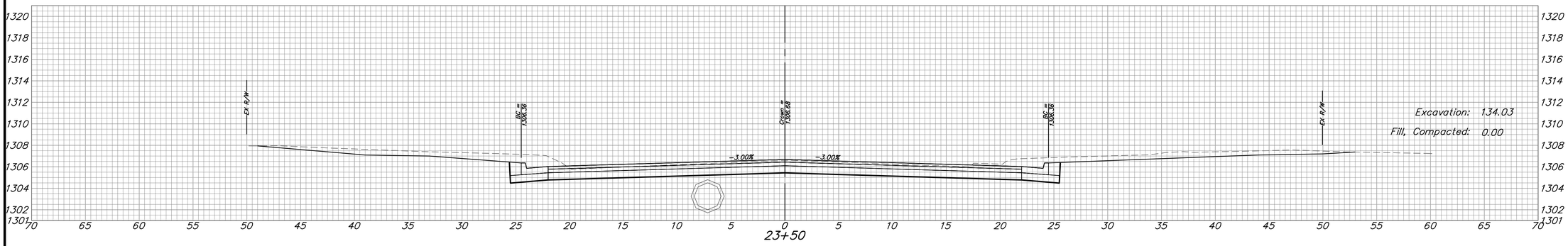
DESIGN: BDC DRAWN: BDC

DATE: August 5, 2025

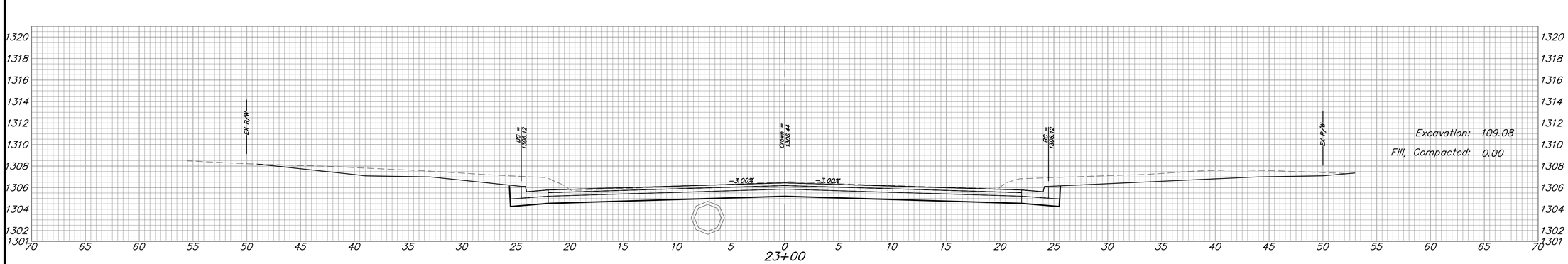
SHEET 133 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\CROSS SECTIONS.dwg

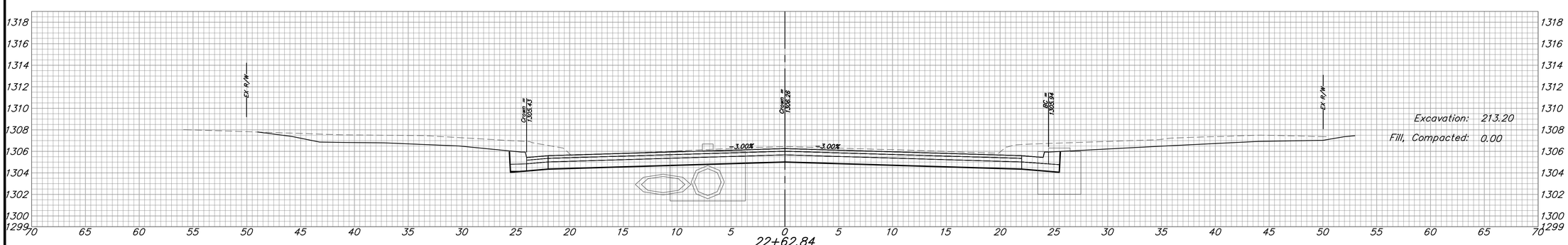
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	134	148



23+50



23+00



22+62.84

BRENT CHESNUTT
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23419
08/05/2025
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CITY OF WICHITA
17TH STREET

CROSS SECTIONS 14

STREET IMRPOVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

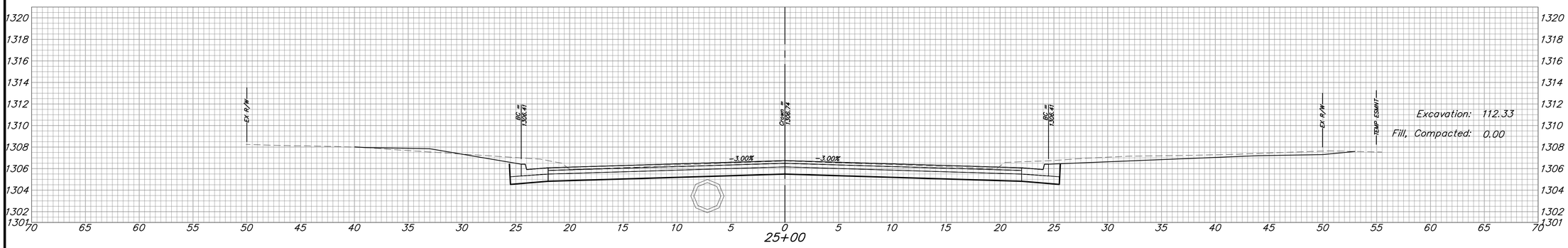
DESIGN: BDC DRAWN: BDC

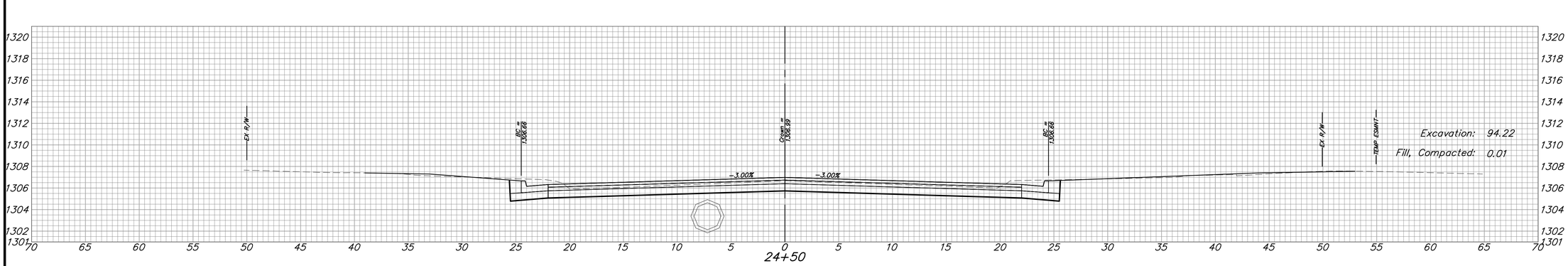
DATE: August 5, 2025

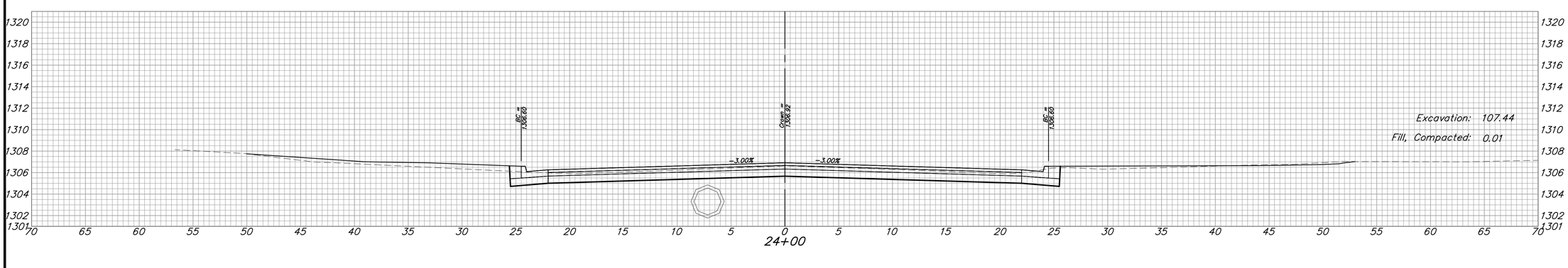
SHEET 134 OF 148

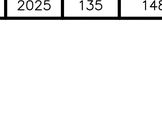
File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\CROSS SECTIONS.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	135	148









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CITY OF WICHITA
17TH STREET

CROSS SECTIONS 15

STREET IMRPOVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

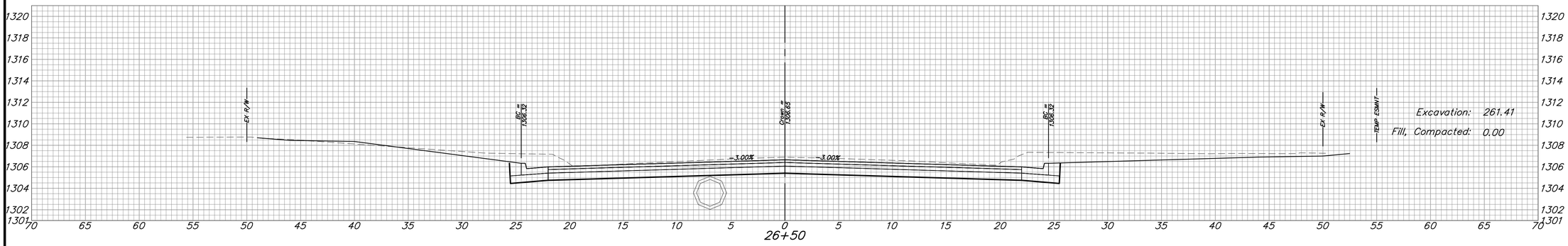
DESIGN: BDC DRAWN: BDC

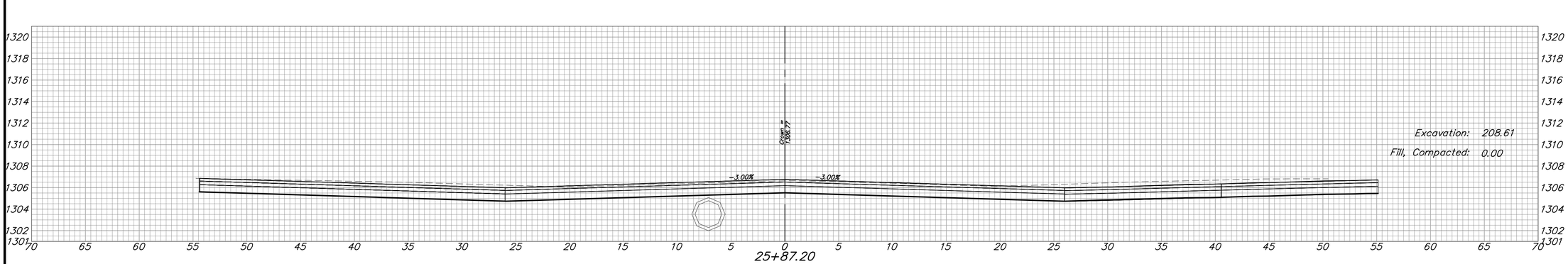
DATE: August 5, 2025

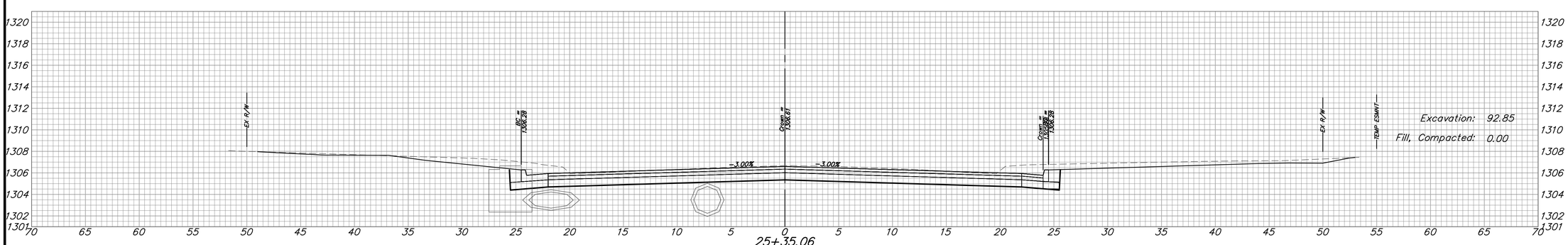
SHEET 135 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\CROSS SECTIONS.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	136	148







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CITY OF WICHITA
17TH STREET

CROSS SECTIONS 16

STREET IMRPOVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

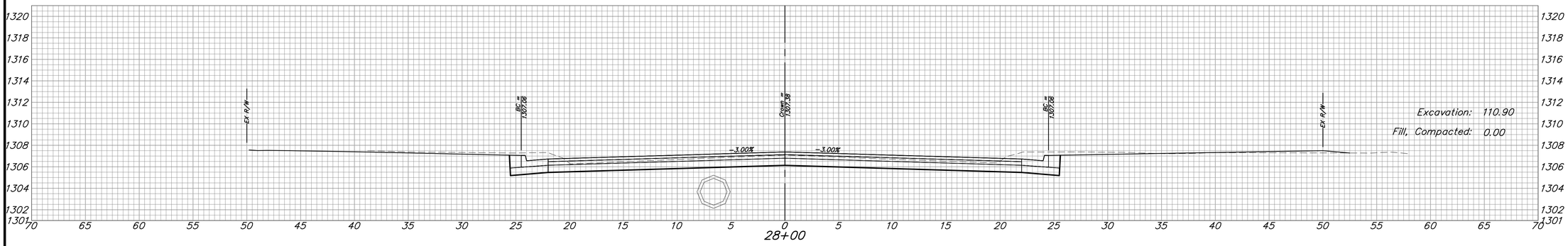
DESIGN: BDC DRAWN: BDC

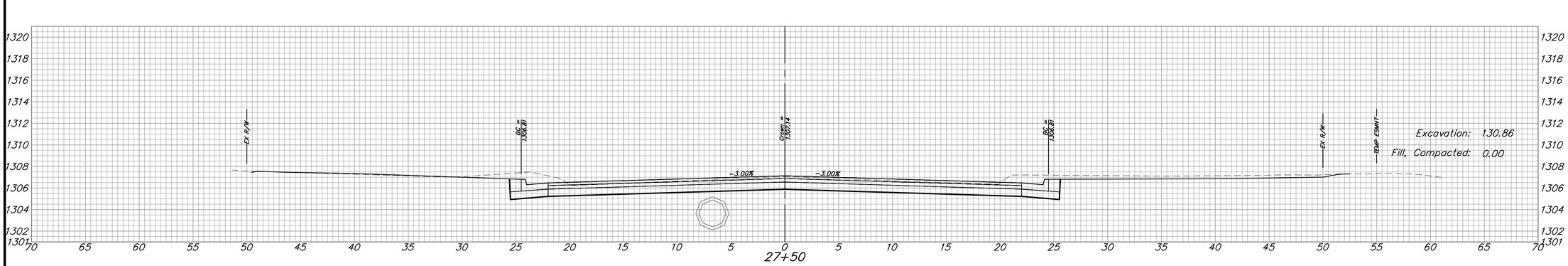
DATE: August 5, 2025

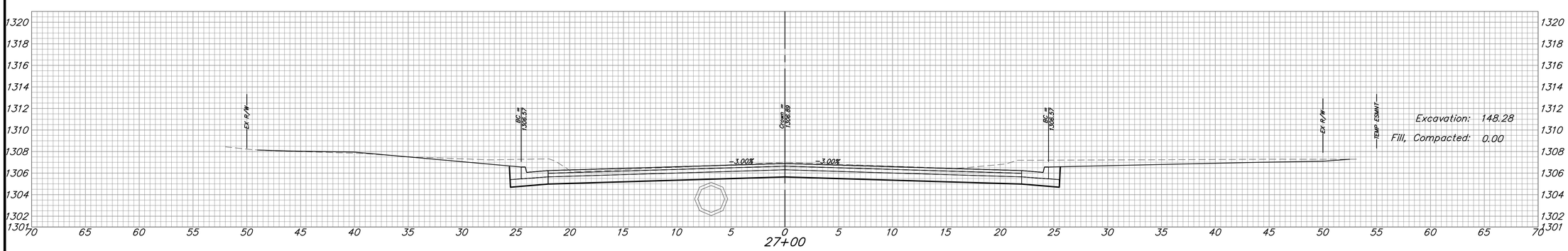
SHEET 136 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\CROSS SECTIONS.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	137	148







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CITY OF WICHITA
17TH STREET

CROSS SECTIONS 17

STREET IMRPOVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

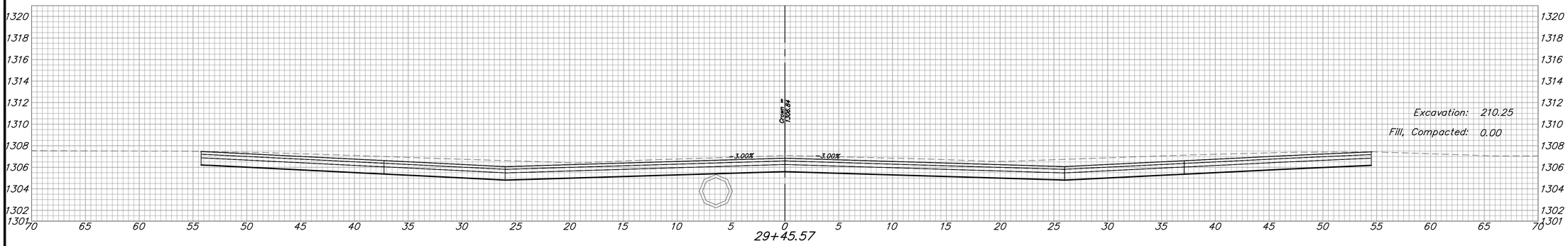
DESIGN: BDC DRAWN: BDC

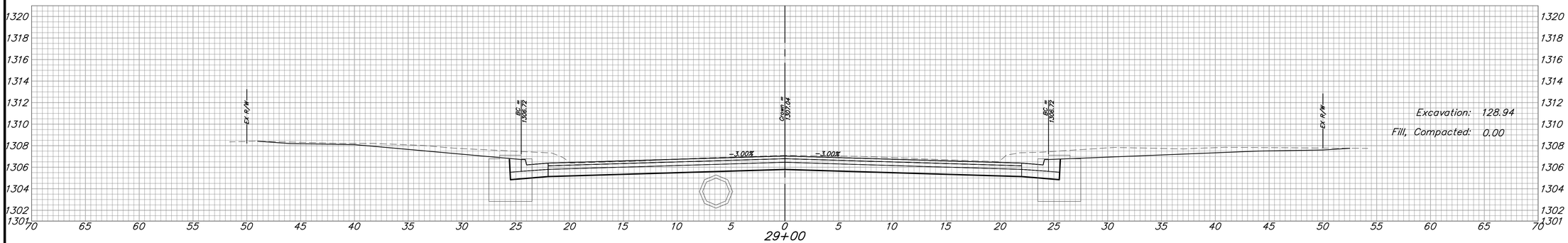
DATE: August 5, 2025

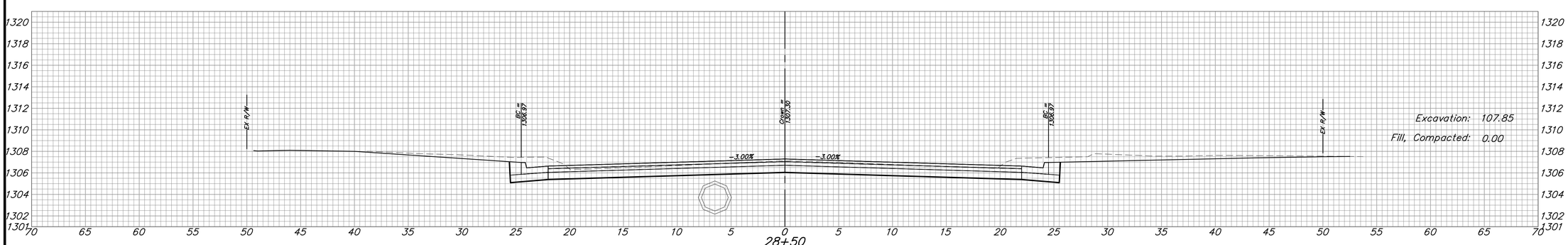
SHEET 137 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\CROSS SECTIONS.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	138	148







BRENT CHESNUTT
LICENSED
2349
08/05/2025
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CITY OF WICHITA
17TH STREET

CROSS SECTIONS 18

STREET IMRPOVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

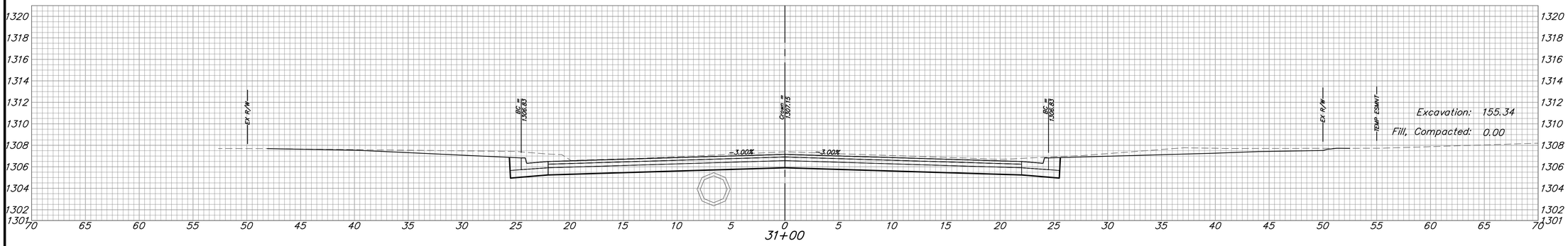
DESIGN: BDC DRAWN: BDC

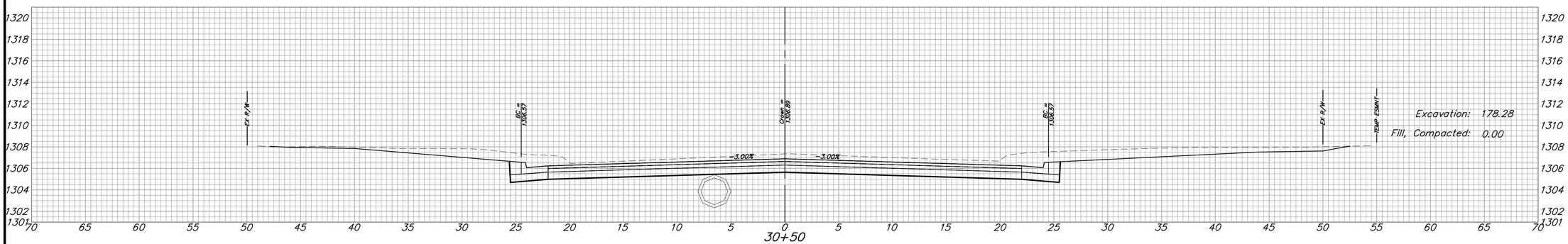
DATE: August 5, 2025

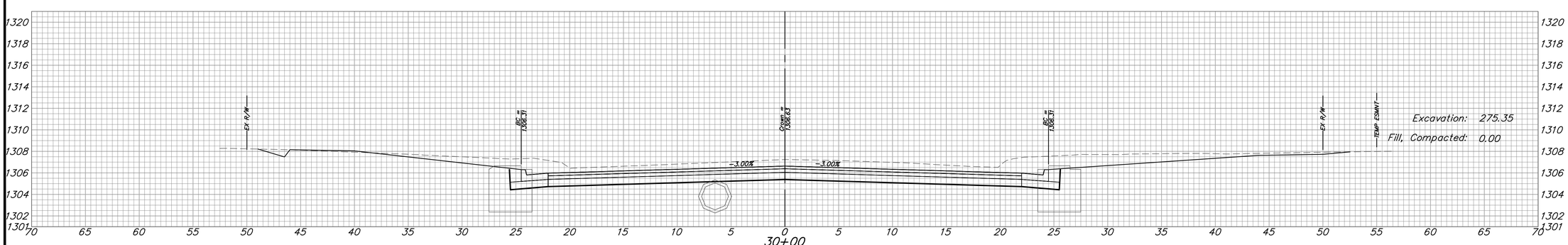
SHEET 138 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\CROSS SECTIONS.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	139	148







BRENT CHESNUTT
LICENSED
2349
08/05/2025
KANSAS
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CITY OF WICHITA
17TH STREET

CROSS SECTIONS 19

STREET IMRPOVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

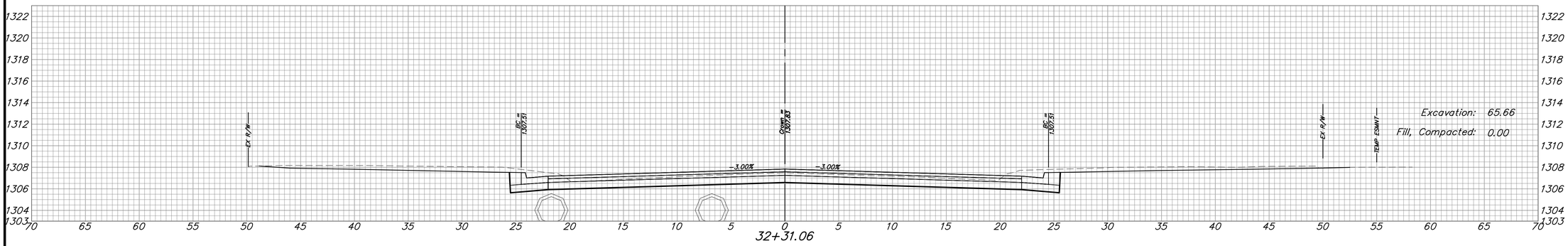
DESIGN: BDC DRAWN: BDC

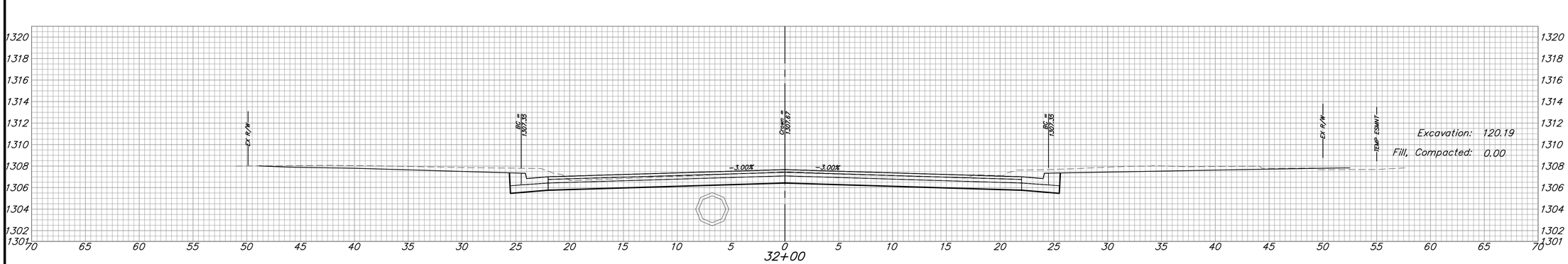
DATE: August 5, 2025

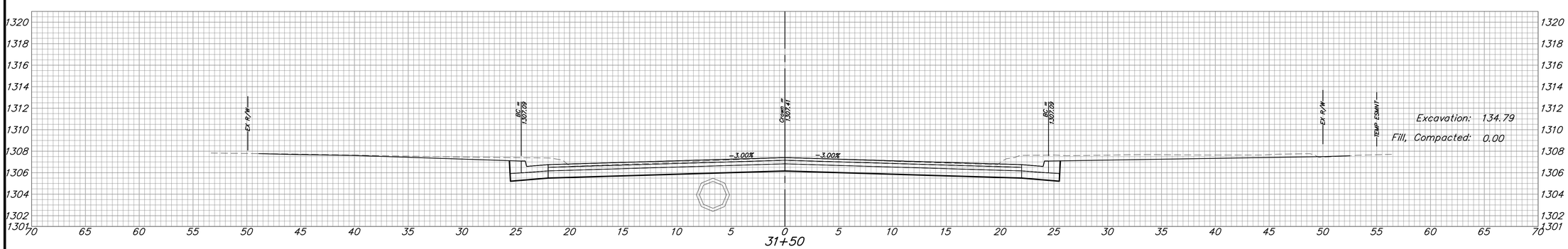
SHEET 139 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\CROSS SECTIONS.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	140	148







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CITY OF WICHITA
17TH STREET

CROSS SECTIONS 20

STREET IMRPOVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

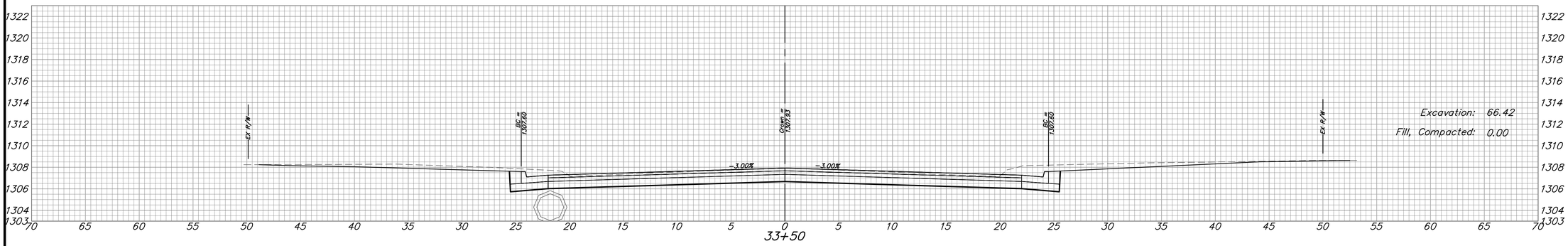
DESIGN: BDC DRAWN: BDC

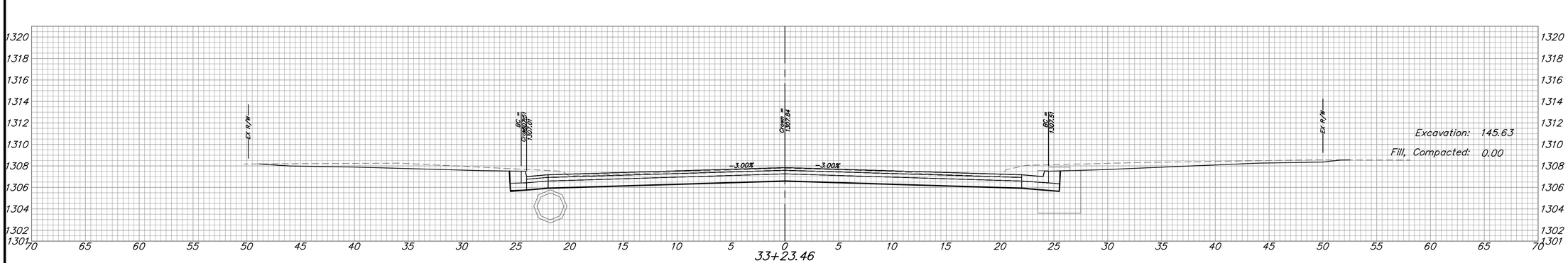
DATE: August 5, 2025

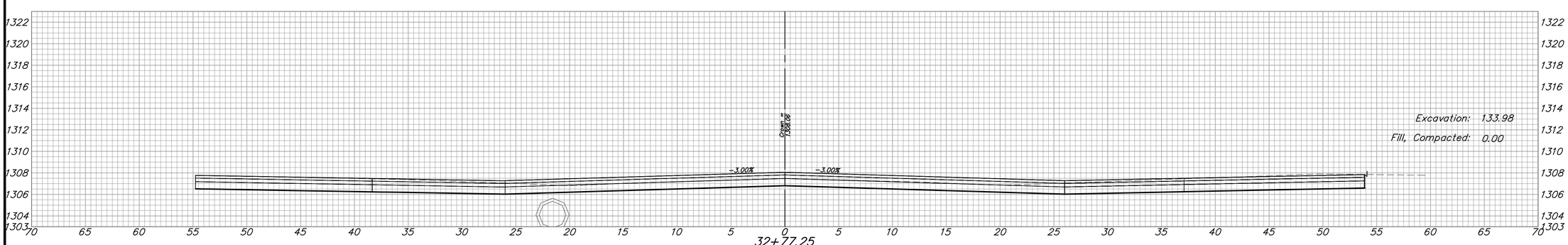
SHEET 140 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\CROSS SECTIONS.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	141	148







BRENT CHESNUTT
LICENSED
2349
08/05/2025
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PROFESSIONAL ENGINEER

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Wichita, KS 67211
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CITY OF WICHITA
17TH STREET

CROSS SECTIONS 21

STREET IMRPOVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

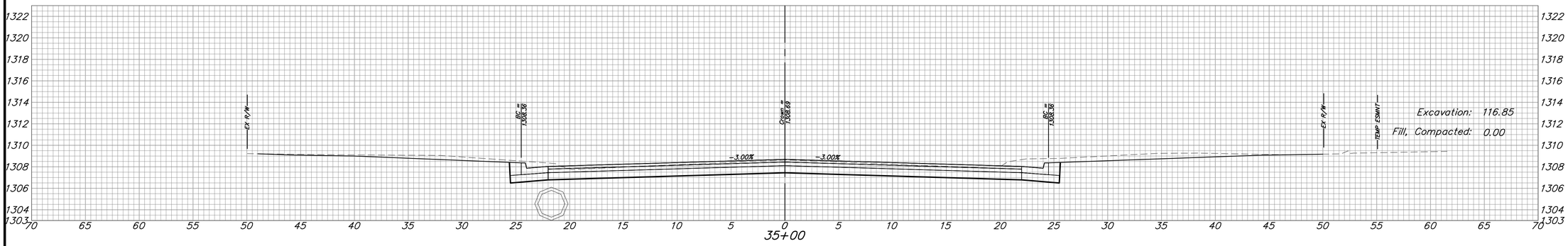
DESIGN: BDC DRAWN: BDC

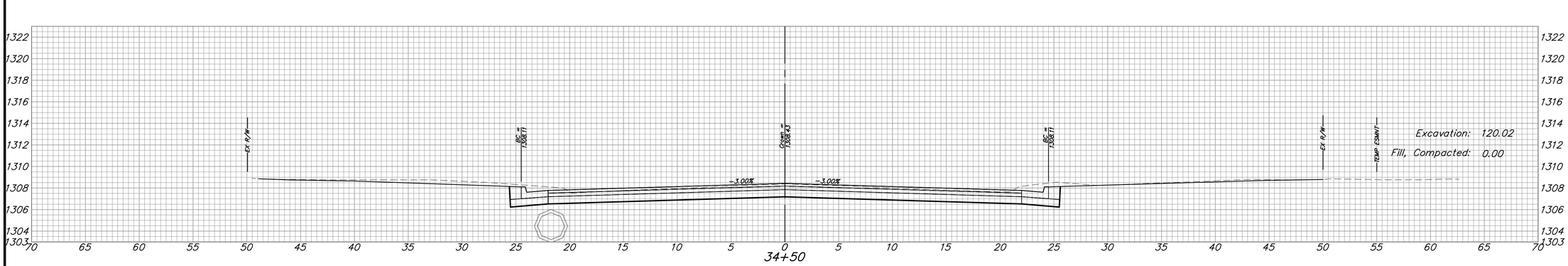
DATE: August 5, 2025

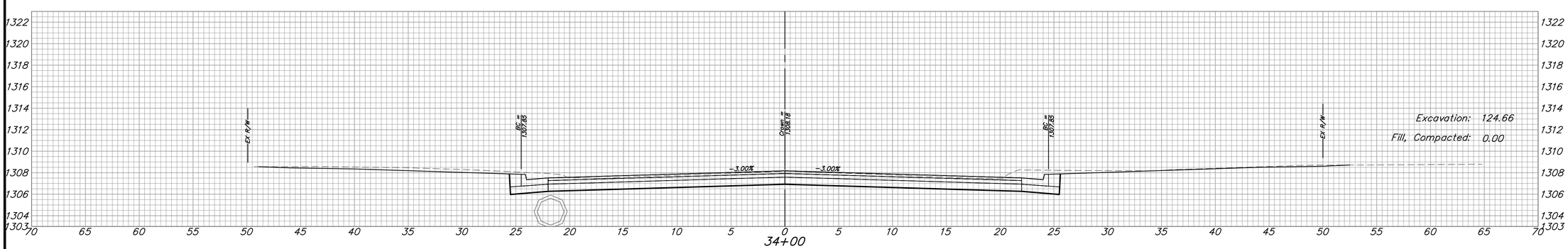
SHEET 141 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\CROSS SECTIONS.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	142	148







BRENT CHESNUTT
NO. 23419
08/05/2025
KANSAS
PROFESSIONAL ENGINEER

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CITY OF WICHITA
17TH STREET

CROSS SECTIONS 22

STREET IMRPOVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

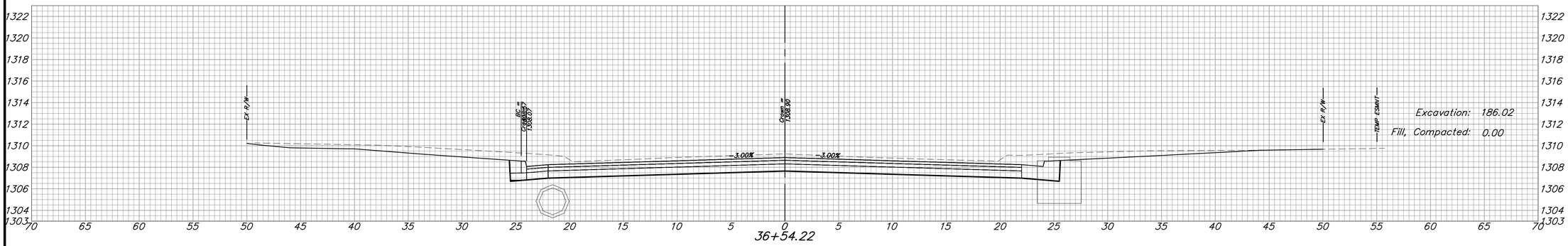
DESIGN: BDC DRAWN: BDC

DATE: August 5, 2025

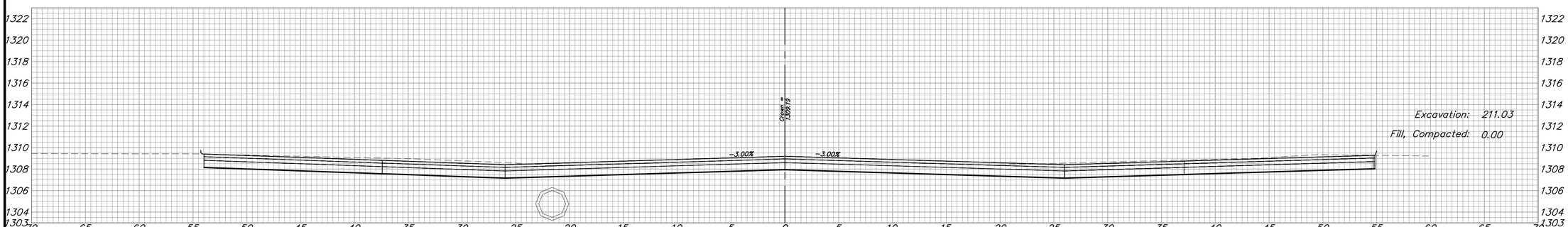
SHEET 142 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\CROSS SECTIONS.dwg

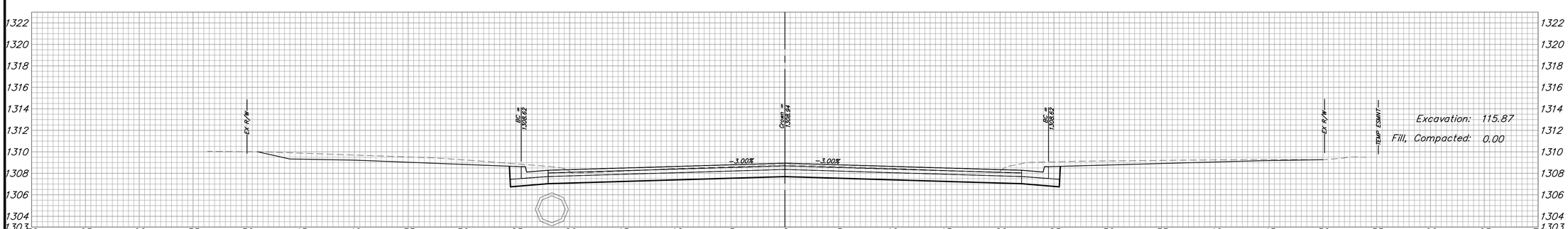
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	143	148



36+54.22



36+08.39



35+50

BRENT CHESNUTT
LICENSED
23479
08/05/2025
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CITY OF WICHITA
17TH STREET

CROSS SECTIONS 23

STREET IMRPOVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

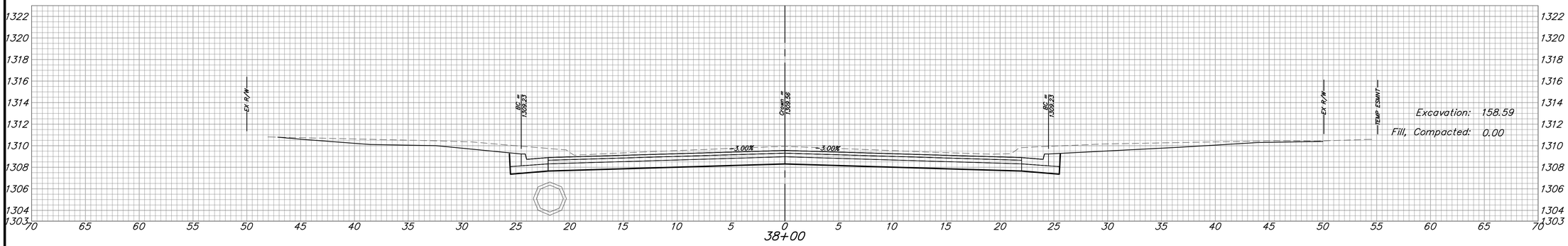
DESIGN: BDC DRAWN: BDC

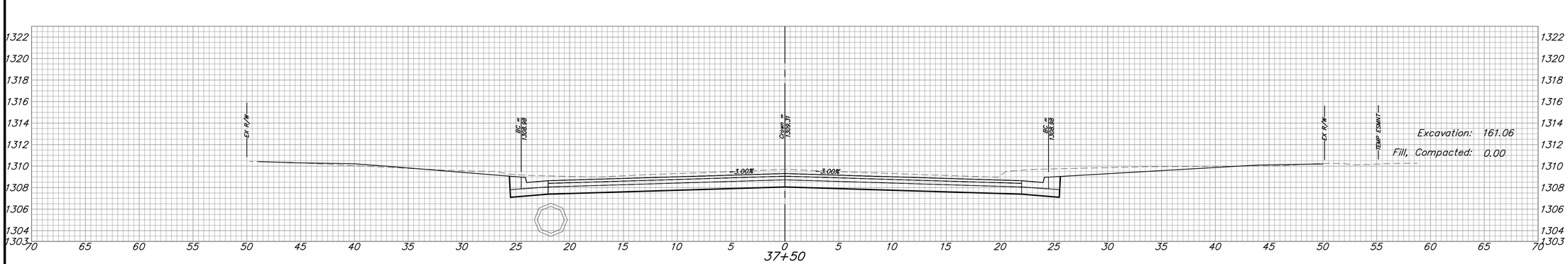
DATE: August 5, 2025

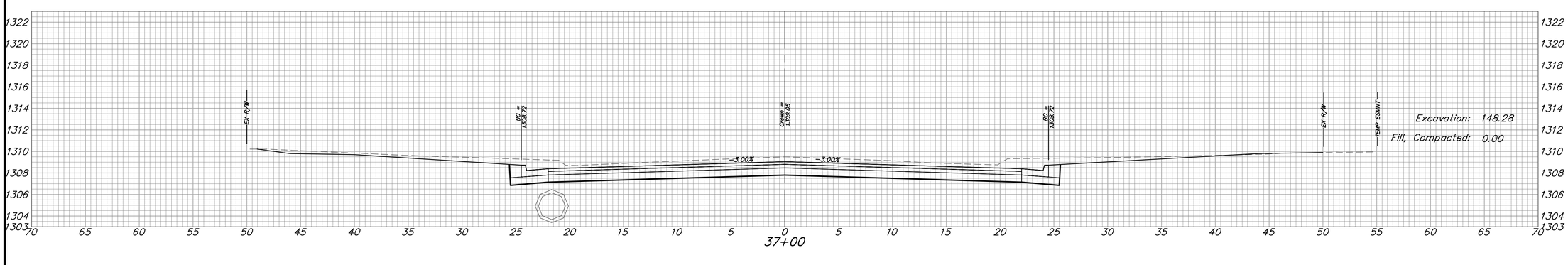
SHEET 143 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\CROSS SECTIONS.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	144	148







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CITY OF WICHITA
17TH STREET

CROSS SECTIONS 24

STREET IMRPOVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

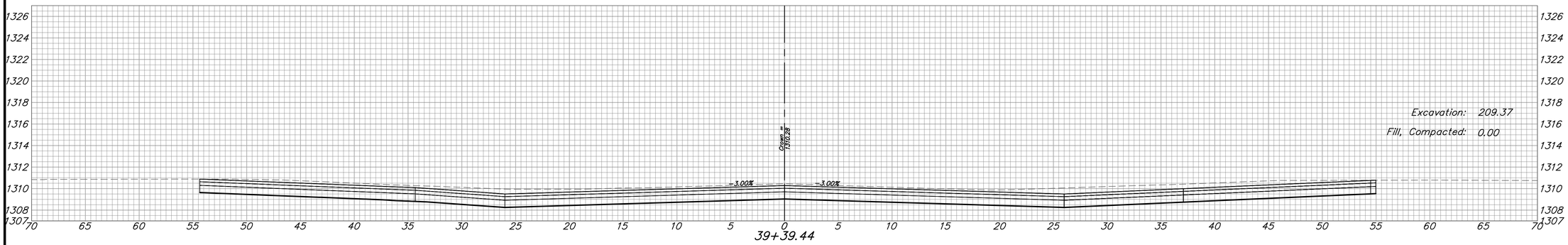
DESIGN: BDC DRAWN: BDC

DATE: August 5, 2025

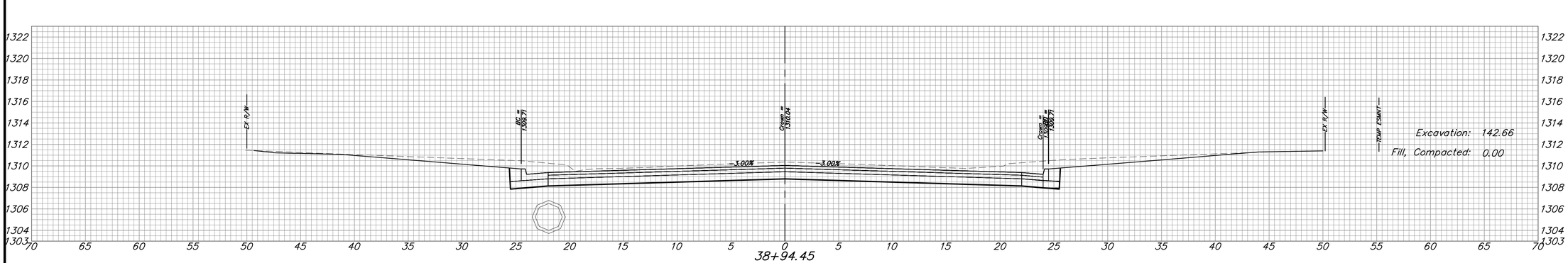
SHEET 144 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\CROSS SECTIONS.dwg

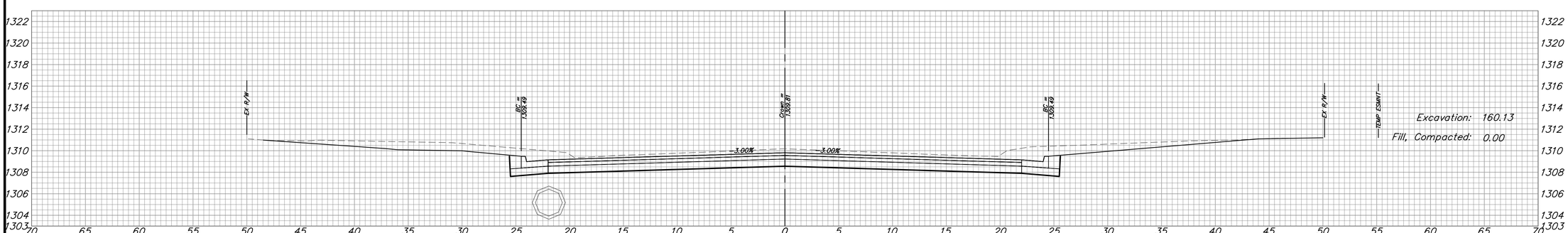
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	145	148



39+39.44



38+94.45



38+50

BRENT CHESNUTT
LICENSED
23419
08/05/2025
KANSAS
PROFESSIONAL ENGINEER

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CITY OF WICHITA
17TH STREET

CROSS SECTIONS 25

STREET IMRPOVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

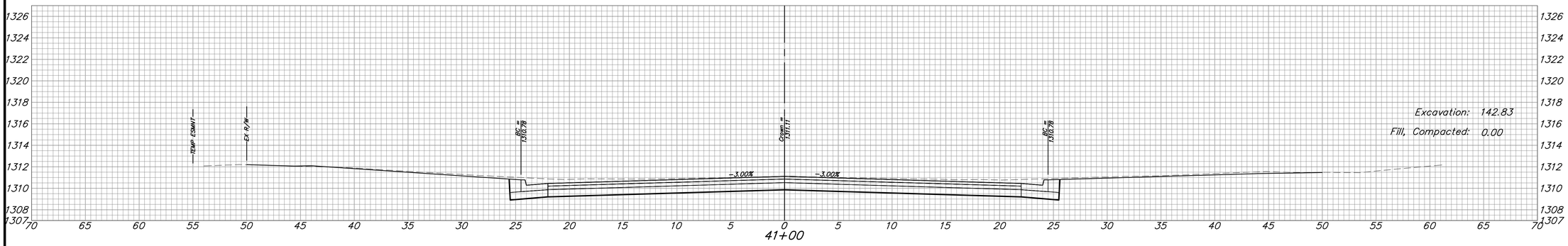
DESIGN: BDC DRAWN: BDC

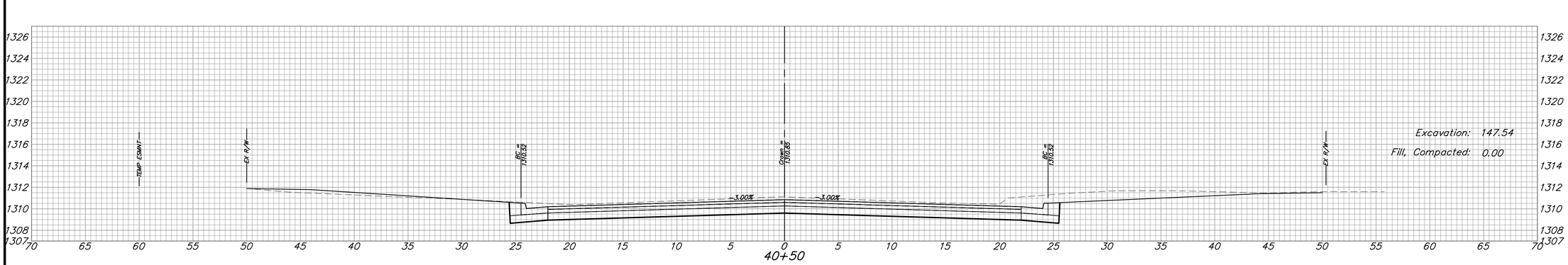
DATE: August 5, 2025

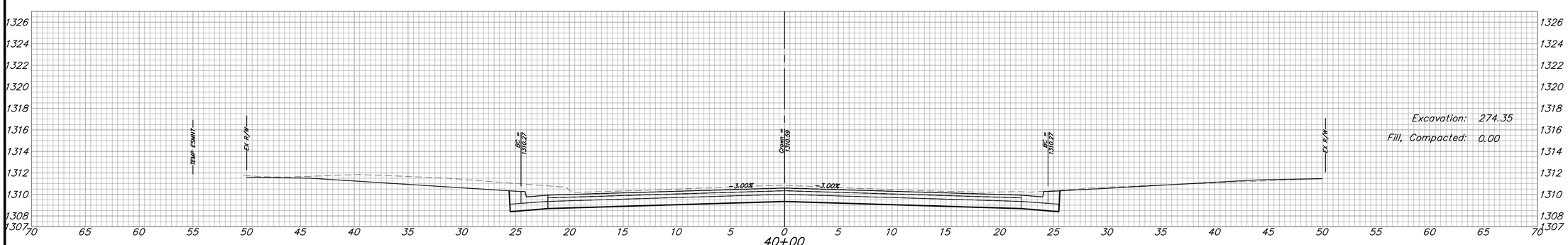
SHEET 145 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\CROSS SECTIONS.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	146	148







BRENT CHESNUTT
NO. 23419
08/05/2025
KANSAS
PROFESSIONAL ENGINEER

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CITY OF WICHITA
17TH STREET

CROSS SECTIONS 26

STREET IMRPOVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

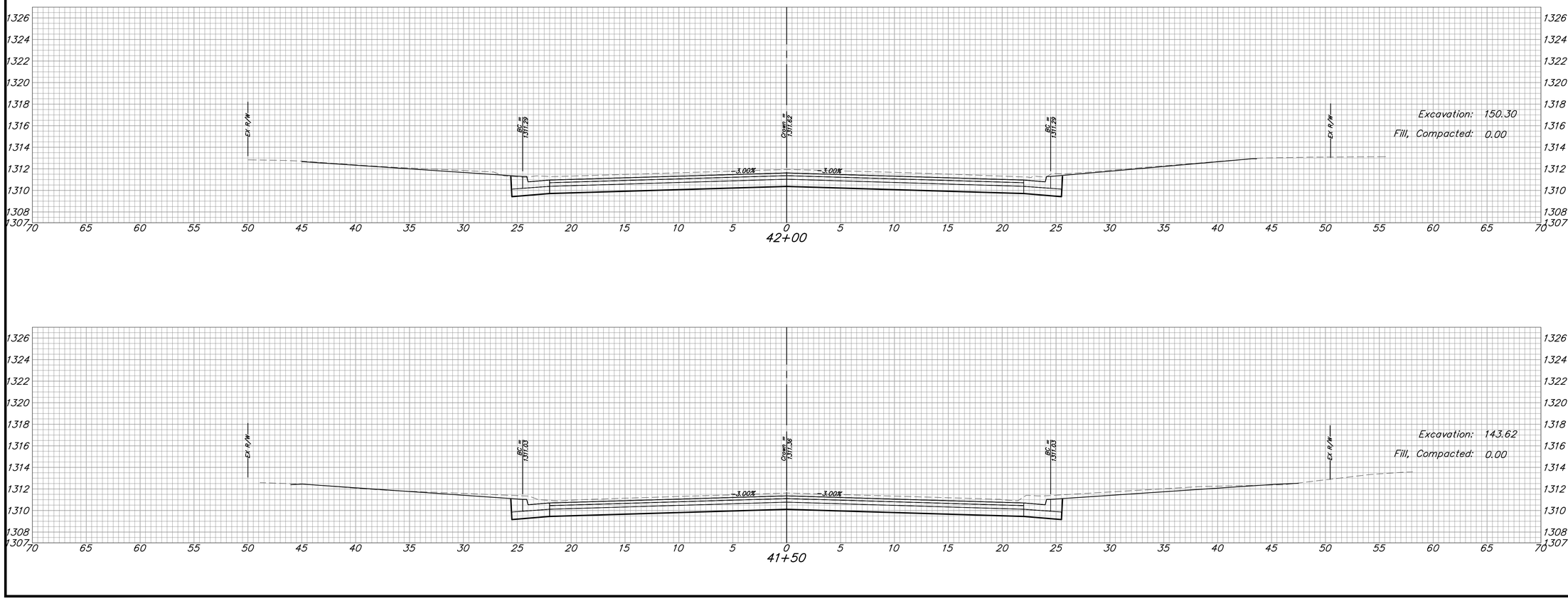
DESIGN: BDC DRAWN: BDC

DATE: August 5, 2025

SHEET 146 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\CROSS SECTIONS.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0761-01	2025	147	148



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CITY OF WICHITA
17TH STREET

CROSS SECTIONS 27

STREET IMRPOVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

DESIGN: BDC DRAWN: BDC

DATE: August 5, 2025

SHEET 147 OF 148

File: E:\Projects\Wichita 17th St_I-135 to Hillside (23-04-E484)\Engineering\DWG\CROSS SECTIONS.dwg

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N–0761–01	2025	148	148

Total Volume Table						
Station	Fill Area	Fill Volume	Total Fill	Cut Area	Cut Volume	Total Cut
3+50.00	0.00	0.00	0.00	62.27	0.00	0.00
4+00.00	0.00	0.00	0.00	37.11	92.01	92.01
4+50.00	0.02	0.02	0.02	20.66	53.49	145.50
5+00.00	0.02	0.03	0.05	24.19	41.52	187.02
5+50.00	0.00	0.02	0.07	47.47	66.35	253.37
6+00.00	0.00	0.00	0.07	71.31	109.98	363.34
6+45.43	0.00	0.00	0.07	142.31	179.73	543.07
7+00.00	0.00	0.00	0.07	82.95	227.61	770.69
7+50.00	0.00	0.00	0.07	70.24	141.84	912.52
8+00.00	0.00	0.00	0.07	72.12	131.81	1,044.33
8+50.00	0.00	0.00	0.07	81.89	142.60	1,186.94
9+00.00	0.00	0.00	0.07	70.31	140.93	1,327.87
9+50.00	0.00	0.00	0.07	59.97	120.63	1,448.50
10+00.00	0.00	0.00	0.07	57.96	109.19	1,557.69
10+50.00	0.00	0.00	0.07	67.97	116.60	1,674.29
11+00.00	0.00	0.00	0.07	47.74	107.14	1,781.43
11+50.00	0.01	0.01	0.08	35.66	77.22	1,858.64
12+00.00	0.00	0.01	0.09	25.48	56.61	1,915.25
12+50.00	0.00	0.00	0.09	32.96	54.11	1,969.36
13+00.48	0.00	0.00	0.09	91.05	115.92	2,085.28
13+50.00	0.00	0.00	0.09	64.24	142.42	2,227.70
14+00.00	0.00	0.00	0.09	61.91	116.81	2,344.51
14+50.00	0.00	0.00	0.09	53.63	106.99	2,451.50
15+00.00	0.00	0.00	0.09	70.80	115.22	2,566.71
15+50.00	0.00	0.00	0.09	84.51	143.81	2,710.52
15+97.76	0.00	0.00	0.09	110.69	172.66	2,883.18
16+20.75	0.00	0.00	0.09	178.92	123.28	3,006.46
16+68.11	0.00	0.00	0.09	65.02	213.97	3,220.43
17+00.00	0.00	0.00	0.09	63.05	75.62	3,296.05
17+50.00	0.00	0.00	0.09	53.15	107.59	3,403.65
18+00.00	0.00	0.00	0.09	62.11	106.72	3,510.37
18+47.24	0.00	0.00	0.09	143.77	180.09	3,690.46
19+00.00	0.00	0.00	0.09	86.49	224.99	3,915.44
19+50.00	0.00	0.00	0.09	79.45	153.65	4,069.10
20+00.00	0.00	0.00	0.09	66.27	134.93	4,204.02
20+50.00	0.00	0.00	0.09	57.45	114.55	4,318.57
21+00.00	0.00	0.00	0.09	59.89	108.64	4,427.22
21+50.00	0.00	0.00	0.09	75.83	125.67	4,552.89
22+10.40	0.00	0.00	0.09	137.93	239.10	4,791.99
22+62.84	0.00	0.00	0.09	81.64	213.20	5,005.19
23+00.00	0.00	0.00	0.09	76.86	109.08	5,114.27
23+50.00	0.00	0.00	0.09	67.89	134.03	5,248.31
24+00.00	0.01	0.01	0.10	48.14	107.44	5,355.74
24+50.00	0.00	0.01	0.10	53.62	94.22	5,449.97
25+00.00	0.00	0.00	0.10	67.69	112.33	5,562.30
25+35.06	0.00	0.00	0.10	75.31	92.85	5,655.15
25+87.20	0.00	0.00	0.10	140.74	208.61	5,863.75
26+50.00	0.00	0.00	0.10	84.05	261.41	6,125.17
27+00.00	0.00	0.00	0.10	76.09	148.28	6,273.45
27+50.00	0.00	0.00	0.10	65.24	130.86	6,404.31

Total Volume Table						
Station	Fill Area	Fill Volume	Total Fill	Cut Area	Cut Volume	Total Cut
28+00.00	0.00	0.00	0.10	54.53	110.90	6,515.21
28+50.00	0.00	0.00	0.10	61.94	107.85	6,623.05
29+00.00	0.00	0.00	0.10	77.32	128.94	6,752.00
29+45.57	0.00	0.00	0.10	171.83	210.25	6,962.25
30+00.00	0.00	0.00	0.10	101.35	275.35	7,237.60
30+50.00	0.00	0.00	0.10	91.19	178.28	7,415.88
31+00.00	0.00	0.00	0.10	76.58	155.34	7,571.22
31+50.00	0.00	0.00	0.10	68.99	134.79	7,706.01
32+00.00	0.00	0.00	0.10	60.82	120.19	7,826.20
32+31.06	0.00	0.00	0.10	53.31	65.66	7,891.86
32+77.25	0.00	0.00	0.10	103.34	133.98	8,025.84
33+23.46	0.00	0.00	0.10	66.85	145.63	8,171.47
33+50.00	0.00	0.00	0.10	68.28	66.42	8,237.89
34+00.00	0.00	0.00	0.10	66.35	124.66	8,362.55
34+50.00	0.00	0.00	0.10	63.27	120.02	8,482.57
35+00.00	0.00	0.00	0.10	62.93	116.85	8,599.42
35+50.00	0.00	0.00	0.10	62.22	115.87	8,715.29
36+08.39	0.00	0.00	0.10	132.95	211.03	8,926.33
36+54.22	0.00	0.00	0.10	86.22	186.02	9,112.35
37+00.00	0.00	0.00	0.10	88.71	148.28	9,260.64
37+50.00	0.00	0.00	0.10	85.23	161.06	9,421.69
38+00.00	0.00	0.00	0.10	86.04	158.59	9,580.28
38+50.00	0.00	0.00	0.10	86.90	160.13	9,740.42
38+94.45	0.00	0.00	0.10	86.43	142.66	9,883.08
39+39.44	0.00	0.00	0.10	164.86	209.37	10,092.45
40+00.00	0.00	0.00	0.10	79.76	274.35	10,366.80
40+50.00	0.00	0.00	0.10	79.58	147.54	10,514.34
41+00.00	0.00	0.00	0.10	74.68	142.83	10,657.16
41+50.00	0.00	0.00	0.10	80.43	143.62	10,800.78
42+00.00	0.00	0.00	0.10	81.89	150.30	10,951.08

BRENT CHESNUT
LICENSED
23419
08/05/2025
KANSAS
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BaughmanCo.com

CITY OF WICHITA
17TH STREET

EARTHWORK VOLUME TABLES

STREET IMRPOVEMENTS

PROJECT NUMBER:
472-2023-085860
23-04-E484

DESIGN: BDC DRAWN: BDC

DATE: August 5, 2025

SHEET 148 OF 148

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